

The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

FEBRUARY 8 1958



*The Glymiel
Story in 3½
million homes!*

During the winter months GLYMIEL JELLY will be advertised in 15-second spots on *London, Midland and North I.T.A. Channels*, together with 90-seconds participation in Magazine Programmes.

13,830,000 people will see Glymiel Jelly and learn its outstanding qualities.

Sangers Ltd.

258 EUSTON ROAD, LONDON N.W.1
BRANCHES: NEWCASTLE & BRISTOL
TELEPHONE: EUSTON 5010

GALENICALS of the B.P., B.P.C. and N.F., including :—

EXTRACTS

Cascara, Liquorice, Ipecacuanha, Nux Vomica, Opium — liquid and or dry, where applicable.

INFUSIONS

Concentrated infusions of Gentian, Orange Peel, Senna, Senega, Valerian.

LINCTUSES

Codeine, Diamorphine, Opiate Linctus of Squill, Pholcodine.

TINCTURES

Belladonna, Benzoin, Chloroform and Morphine, Ipecacuanha, Opium, Stramonium.

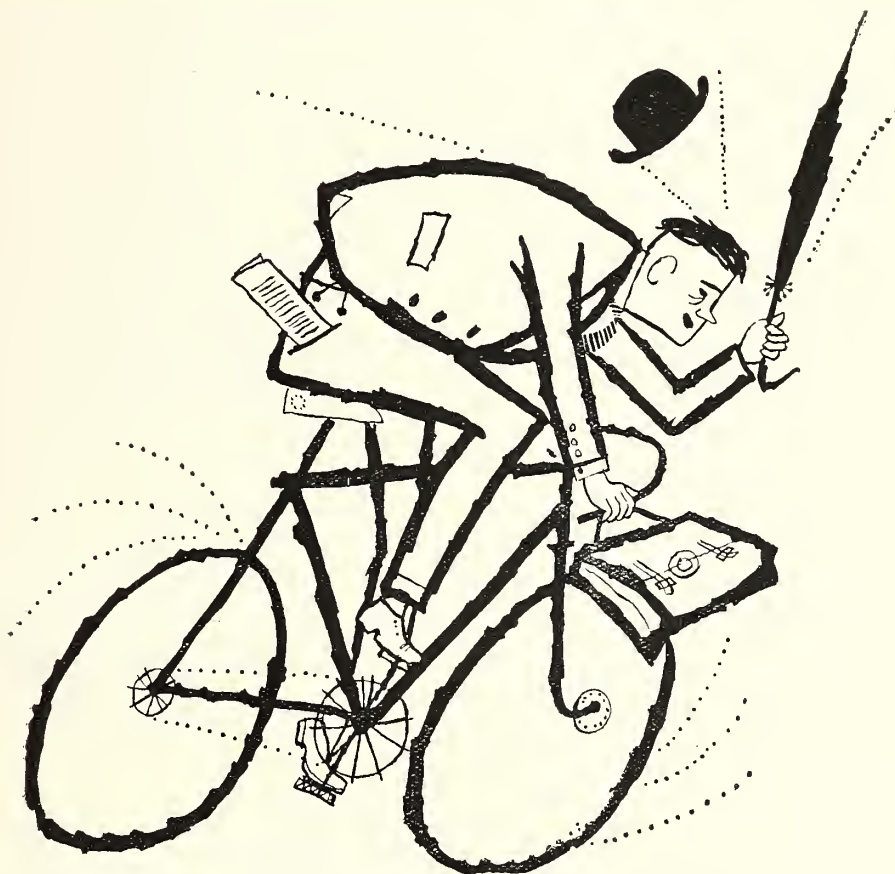
SYRUPS

Cocillana, Codeine, Compound Syrup of Figs, Easton's, Pholcodine Citrate, Senna, Squill.

SMITH
OF EDINBURGH



T. & H. SMITH LTD · BLANDFIELD CHEMICAL WORKS · EDINBURGH 11



activity can be rapidly restored

The well-being of many patients demands regularity in daily bowel movements. DULCOLAX, when taken in the evening on a full stomach in tablet form, will bring about a soft easy motion about ten to twelve hours later. In the form of a suppository it will act within the hour when inserted upon rising. This is achieved without side-effects or subsequent rebound constipation. The gentle action of DULCOLAX is most suitable for the aged.

Dulcolax*

4,4'-diacetoxy-diphenyl-pyridyl-2-methane.



Manufactured and distributed in the U.K. by Pfizer Ltd., Folkestone, Kent, for
C. H. Boehringer Sohn, Ingelheim am Rhein.
Registered Proprietors of the Trade Mark. *Regd. Trade Mark.



Relief for the asthmatic child

UNIQUE BUFFERED THEOPHYLLINE SYRUP

Relief from the apprehension and acute distress of an asthmatic attack is provided by 'ENGLATE.' In almost all cases gastrointestinal disturbance is entirely absent. The combination of theophylline sodium with glycine permits full and effective therapeutic activity and by reducing gastric precipitation of theophylline enables larger doses to be prescribed.

ENGLATE

Regd. Trade Mark

Theophylline Sodium Glycinate

SYRUP (containing 120 mgms. of theophylline sodium glycinate per 4 mls.) for children up to 12 years. Available in bottles of 8 fluid ounces.

TABLETS (300 mgms. of theophylline sodium glycinate). Available in bottles of 50 and 500.

Literature will gladly
be sent on request

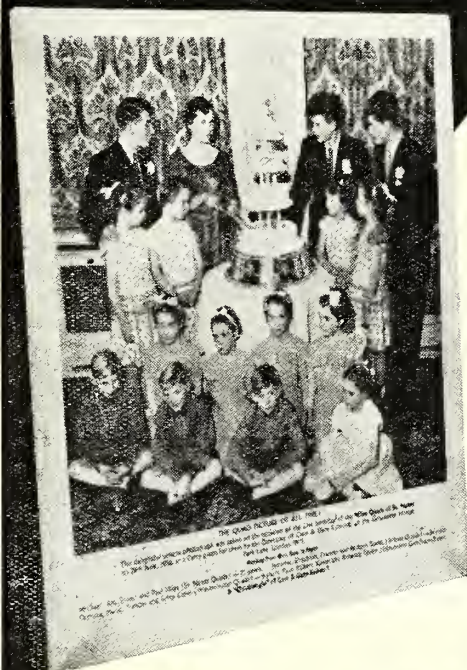
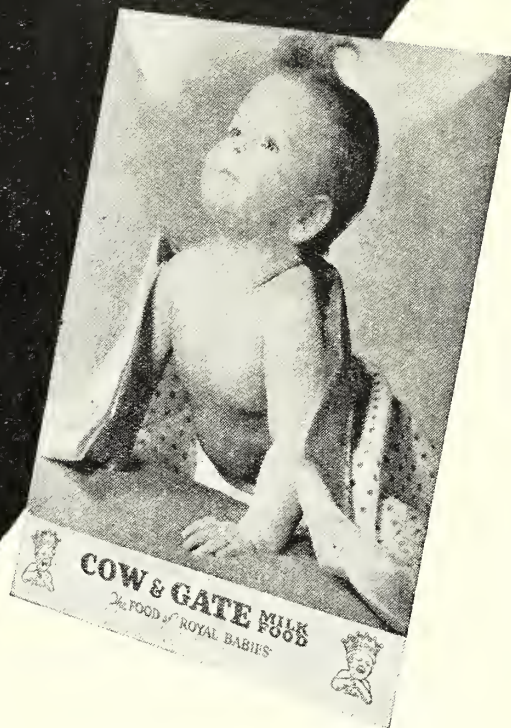
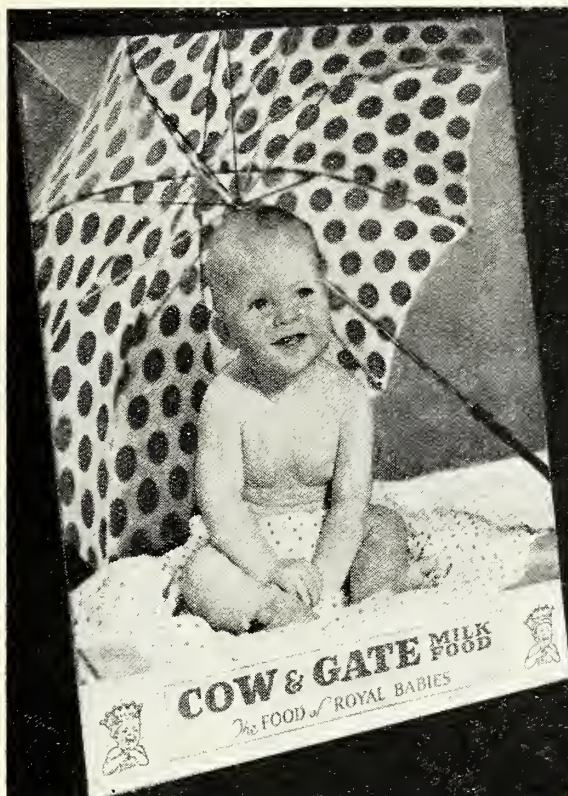


A. & G. Nicholas LTD.

Ethical Pharmaceuticals

SLOUGH

ENGLAND



Here are three examples of our new plastic processed Showcards. Two are in **full colour** and one in black and white and all are eye catching, appealing and decorative and tie up with our ever expanding current advertising campaign.

We shall be delighted to send you display matter if you will let us know your requirements. Full colour plastic processed Cereal Food Showcards are also available.

Please address your enquiries to
Cow & Gate Ltd. (Dept. CD),
Guildford, Surrey.

COW & GATE MILK FOODS



First ever!

To be launched by . . .

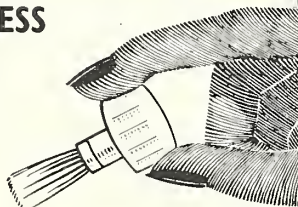
T.V. ADVERTISING (COMMENCING LONDON)
and **NATIONAL PRESS**

BEGINNING
4th MARCH



Retail Price
2/8½
Complete

Price to Retailers
2 oz. Bottle 18/- per doz.
Plus 30% P.T.



O·D·E·D·E·N·T

INSTANT

Regd.

LIQUID DENTURE CLEANSER

NOW in a BRUSH-CAP bottle for easy use

YOUR PROFIT 33½%

"No Soaking" liquid denture cleanser with its own hygienic

Brush-cap!

CROWNER ATTACHED TO EACH BOTTLE TO DEMONSTRATE NEW BRUSH-CAP OFFERS RETAILERS A SPACE SAVING AND EFFECTIVE DISPLAY

Apply direct
for BRUSH-
CAPS to fit
your existing
stocks of large
bottles.



ORDER NOW from your Wholesaler TO MEET DEMANDS
THE ODE-DENT COMPANY · WALTON-ON-THAMES · SURREY · ENGLAND



**WINTER IS HERE
SELL SUN!
'NERON'**

**ULTRA-VIOLET
plus
INFRA-RED
HEALTH LAMP**
£4 18 6
(MADE BY OSRAM
G.m.b.H.)

"V" (DEVELOPMENT
& TRADING) LTD.
22 CLIFTON RD.
LONDON W.9

VARIOUS LAMP STANDS,
PRESCRIPTION
MODELS

COSMETICS PERFUMERY
Hair Preparations

André Philippe

Write for
Illustrated List

**BUBBLE
BATH**

FINE TOILETRIES at budget prices
SILMOR DISTRIBUTING CO.
16 COSWAY STREET, LONDON, N.W.1
Tel: PADDington 6502

TRADE 'VERLOG' MARK

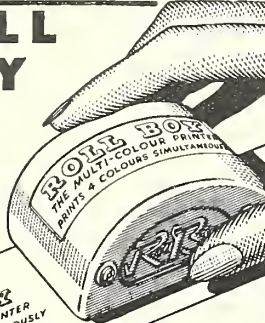
SURGICAL ELASTIC HOSIERY
Belts, Trusses, Suspensory Bandages, etc.

ATHLETIC SUPPORTS
Knee Caps, Anklets, Jockstraps

THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM
Tel.: 58227 (2 lines). 'Grams: Verlog, Nottingham

**ROLL
BOY**

The only
perfect
multi-
colour
printer




up to 4 colours
in 1 operation.
Ideal for print-
ing brochures,
letterheads,
invoices,
envelopes, etc.

Write for leaflet
and name of near-
est stockist to:

ROLL BOY LTD.
70 Pilgrim Street,
Newcastle-upon-Tyne.

ROLL BOY LTD.
70 Pilgrim Street,
Newcastle-upon-Tyne.



Synfoam SUPER
HONEYCOMB ALL-PURPOSE
SPONGE FULLY
SYNTHETIC

STANDARD SIZE (Approx. 5"x3½"x1½") Retail Price 2/11
LARGE SIZE (Approx. 5½"x3½"x1½") Retail Price 3/11
USUAL DISCOUNTS

Each Sponge in a 3-coloured transparent sleeve—Each dozen
in 4-coloured show carton—12 dozens in Cardboard Box.
Obtainable from **YOUR USUAL WHOLESALER** or contact:
FLETCHER & FARLOW LTD., Finsbury Court,
Finsbury Pavement, London, E.C.2. Tel: MONarch 6810

"SYNFOAM SUPER" SELLS ON SIGHT!

INDEX TO ADVERTISERS

Allen, Stafford, & Sons, Ltd.	18	Daniel, Richard, & Son, Ltd.	11
Ashwood Timber Industries, Ltd.	34	Davenport, J. T., Ltd.	54
Askit, Ltd.	52	Eade's Pills, Ltd.	34
Ayrton Saunders & Co., Ltd.	8	Edge, Wm., & Son, Ltd.	51
Battle, Hayward & Bower, Ltd.	28	Evan Williams Co., Ltd.	22
Beatson, Clark & Co., Ltd.	43	Evans Medical Supplies, Ltd.	Interleaved Edit., 32
Belton Products, Ltd.	53	Farbwerke Hoechst A.G./Hoechst Chemicals, Ltd.	40
Boots Pure Drug Co., Ltd.	26	Felling Zinc Oxide Co., Ltd.	40
British Drug Houses, Ltd., The	33	Fletcher & Farlow, Ltd.	4
British Dyewood Co., Ltd., The	34	Foyle, W. & G., Ltd.	40
British European Airways	29	Freder Bros. Paper Mills	36
Brook, Parker & Co., Ltd.	34	Furman, B. N. (Productions), Ltd.	46
Burroughs Wellcome & Co.	Interleaved Edit., 161	Geigy Pharmaceutical Co., Ltd.	9
Bush, W. J., & Co., Ltd.	55	General Electric Co., Ltd., The	35
Calfos, Ltd.	5	Gerhardt, C. F., Ltd.	42
Carnegies of Welwyn, Ltd.	17	Glover, Thos., & Son, Ltd.	4
Chemist and Druggist Art of Dispensing	55	Gnome Photographic Products, Ltd.	52
Chemist and Druggist Pharmaceutical Formulas	48	Golden, Ltd.	47
Chemist and Druggist Poisons Guide	34	Haffenden, W. W., Ltd.	27
Chesebrough-Ponds, Ltd.	25	Hamburger, M., & Sons, Ltd.	40
Cow & Gate, Ltd.	3	Hanimex (U.K.), Ltd.	23
Cox, Arthur H., & Co., Ltd.	6	Holloway, E. R., Ltd.	13
Crookes Laboratories, Ltd., The	53	Jarrett, Rainsford & Laughton, Ltd.	19
Cuticura Preparations	36	Kay Bros., Ltd.	24
Cuxson, Gerrard & Co., Ltd.	42		
Dales Tablet Makers, Ltd., The	52		

(continued overleaf)

Edible Bone Phosphate

Full particulars, samples and prices from
Calfos Ltd.

Imperial House, Kingsway, London, W.C.2
Telephone: Temple Bar 3629

INDEX (cont.)

Key Glassworks, Ltd.	Cover iii	Salter, Geo., & Co., Ltd.	39
Lasco, Ltd.	11	Sangers, Ltd.	Front Cover
Lederle Laboratories Division	Interleaved Edit., 31	Scott & Turner, Ltd.	46
Lincoln Hair Products, Ltd.	16	Shadeine Co., Ltd., The	38
Martin Display	22	Silmor Distributing Co.	4
Meggeson & Co., Ltd.	21	Smith & Hill (Chemists), Ltd.	50
Mellojuce, Ltd.	55	Smith & Nephew Pharmaceuticals, Ltd.	7
Moore Medicinal Products, Ltd.	54	Smith, T. & H., Ltd.	Cover ii
Morgan's Pomade Co., Ltd.	54	Southalls (Birmingham), Ltd.	24
Mysore, Trade Agent for	52	Thornton & Ross, Ltd.	50
National Glass Works (York), Ltd.	44	Torbet Lactic Oat Co., Ltd.	26
Nicholas, A. & G., Ltd.	2	United Glass Bottle Manufacturers, Ltd.	41
North, James, Distributors, Ltd.	10	Universal Metal Products, Ltd.	15
Odent Co., The	4	Van der Velde, Ltd.	4
Orridge & Co.	Classified Section	V. (Development & Trading), Ltd.	4
Papersticks, Ltd.	24	Vitamins, Ltd.	14
Perihel, Ltd.	38	Vocalzone, Ltd.	46
Pfizer, Ltd.	1	Walker, W. & F., Ltd.	12
Pharmax, Ltd.	28	Webster, Isaac, & Sons, Ltd.	38
Philips Electrical, Ltd.	30	Woodward, G. O., & Co., Ltd.	49
Ransom, William, & Son, Ltd.	37	Woolset Products, Ltd. (Zero)	20
Riddell Products, Ltd.	36	Yalcs, Ltd.	26
Riley, John, & Sons, Ltd.	50	Zeal, G. H., Ltd.	Cover iv
Roche Products, Ltd.	Interleaved Edit., 162	Zimmermann, Chas., & Co., Ltd.	45



**THE MANUFACTURING
AND PACKAGING SERVICE OF
ARTHUR H. COX & CO. LTD.**

offers you

Over a century's experience in the production, development and manufacture of pharmaceuticals. Tablets, Pills, Pastilles, Creams, Ointments, Liquids, Suppositories and Specialities supplied in any quantity.

Superior, display-value packaging from high grade carton board and label paper.

Clear legible printing and many attractive colour schemes.

An OWN Name and Address scheme that covers everything.

ARTHUR H. COX & CO. LTD. • BRIGHTON • ENGLAND



A new molecular complex of

chloral hydrate in tablet form

At last the problems of taste, odour and gastric upset associated with chloral hydrate have been overcome.

WELLDORM (dichloralphenazone) is a palatable *tablet* form of a new molecular complex of chloral hydrate that will induce safe, physiological sleep. Those whose only wish is to "get off" to sleep and wake up without any hangover effects will find WELLDORM preferable to barbiturates. WELLDORM is not a poison.



Welldorm

TABLETS

SAFE • PALATABLE • RELIABLE

Availability: 10gr. scored tablets in containers of 25 and 250. Prescribable on Form E.C.10

PRICE:	Trade	Retail
25 container	2/6 + 9d. P.T.	4/6 (inc. P.T.)
250 container	20/- + 6/- P.T.	36/- (inc. P.T.)

Literature and samples from:



SMITH & NEPHEW PHARMACEUTICALS LTD.
WELWYN GARDEN CITY • HERTS.

New **TABASAN** *Advertising*

ment in ninety countries throughout the world.

FREE YOURSELF from the cruel bonds of **ASTHMA** symptoms and of **BRONCHITIS** AND **HAY FEVER**

TABASAN TABLETS give safe, quick relief to sufferers, make your life easier, and more active. Seek medical advice.

TRY TABASAN TODAY

TABASAN FOR ASTHMA

ONLY 1/6 12 TABLETS FROM CHEMISTS

3/3 for 50 Tablets. 5/9 for 100 Tablets.

TABASAN TABLETS—known the world over made only by **AYRTON, SAUNDERS & CO. LTD., LIVERPOOL**

World-wide sales and service
It is the largest group of compa

**SUNDAY
NEWSPAPERS**
February & March

12's 9/- per dozen
plus 30% tax Retail 1/6

50's 20/9 per dozen
plus 30% tax Retail 3/3

100's 37/- per dozen
plus 30% tax Retail 5/9

KEEP TABASAN ON DISPLAY

AYRTON SAUNDERS

& CO. LTD

HANOVER STREET · LIVERPOOL

Telephone Royal 8282

Desogen[®] antiseptic lozenges



In appreciation of the
impressive support pharmacists
have given this product
since its introduction

Geigy will renew their

Bonus Offer

of 15 packs charged as 12
during the period
20th January–28th February

Desogen antiseptic lozenges
in the attractive
plastic containers are
therapeutically effective
pleasant tasting
safe for all ages

Geigy

200
years Geigy

Each lozenge contains
0.5 mg. of (dodecanoyl-
N-methylaminoethyl)-
(phenyl-carbamyl-methyl)-
-dimethylammonium chloride

Geigy Pharmaceutical Company Ltd.
Manchester, 23.



16,000,000 WOMEN
WITH SPRING CLEANING ON THEIR MINDS
and a big campaign to put



GLOVELIES

FABRIC-LINED PLASTIC HOUSEHOLD GLOVES

ON THEIR HANDS

It's all lined up and ready to go—an intensive new advertising campaign for Glovelies.

Beginning early in February impelling advertisements will appear in *Woman's Weekly*, *Woman's Own*, *Woman's Illustrated* and the new *Woman's Realm* with its guaranteed circulation of one million copies a week. Every advertisement in the campaign will be seen by millions of women—and just at the moment they are thinking about Spring-cleaning and what it could do to unprotected hands.

ON T/V TOO!

In London and the South they will see—and hear—about Glovelies on commercial television as well, and you know already how T/V advertising leads to extra sales.



WHY—AND HOW—

YOU WILL SELL MORE GLOVELIES

Remember, Glovelies, blue Northplastic house gauntlets with *knitted* fabric lining last many times longer than rubber, feel far more comfortable, look more becoming, and retail at only 5/8d. a pair. Glovelies sales go up and up and this well-timed campaign will signal a boom in them.

FREE A wire counter dispenser is available to stockists placing an order for 3 doz. Glovelies and/or Northhands, or a floor-standing wire unit can be had on receipt of orders for 6 doz. Glovelies and/or Northhands.

AS WELL AS GLOVELIES—

remember to check your stocks of these ever-more-popular North domestic gloves:—Polka Dot Jersey Gloves, 3 colours but one size, 3/8 per pair; White Drill Gloves, one size, 2/6d. per pair; and Northhands plastic gloves for men, 6/11d. per pair.

JAMES NORTH
DISTRIBUTORS LTD

KIRKMAN HOUSE,

54a Tottenham Court Road, London, W.1

Telephone: LAngham 4811

This is **THE PACK** for
YOUR dispensary

SPECIAL PARCEL

12 BOXES OF SUPPOSITORIES SENT

POST FREE!

to your address and charged through YOUR USUAL WHOLESALER

E.G. 6 Boxes of Suppos. Bism. Subgall. 6 Boxes of Suppos. Bism. Subgall. Co.

Manufactured and Packed In the Laboratories of:

RICHARD DANIEL & SON LTD.

MANSFIELD ROAD, DERBY, Tel. 40671 (8 lines) and at GROSVENOR STREET, ASHTON-U-LYNE, Tel. 2816 (3 lines)

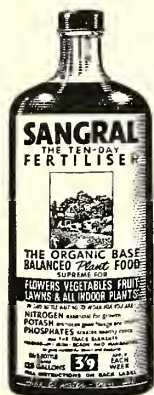
STOCK and DISPLAY

SANGRAL TEN-DAY FERTILISER

made famous by
SUCCESS and RECOMMENDATION



★
DON'T
FORGET
TO
INCLUDE
THE GREAT
CHRYSANTH
SPECIAL
★



SEND YOUR ORDER TO-DAY!

PRODUCT OF
LASCO LTD., Carruthers St., Liverpool 3

SUPPLIED IN NON-RETURNABLE CASES
containing

GRANULAR SANGRAL

48	1/-	PACKETS
72	1/-	"
144	1/-	"
12	3/-	CARTONS
24	3/-	"
12	5/6	"
24	5/6	"

LIQUID SANGRAL

GENERAL		TOMATO SPECIAL	
12	3/9 Bottles	12	3/9 Bottles
24	2/3 "	24	2/3 "

CHRYSA NTHEMUM SPECIAL

12	3/9 Bottles
24	2/3 "

MIXED CASES

24 2/3 Bottles
Containing 8 General, 8
Tomato Special, 8 Chrys.
Special.

12 3/9 Bottles
Containing 4 General, 4
Tomato Special, 4 Chrys.
Special.

ROTOsan

BONUS OFFER

BONUS PARCEL 'A'

YOUR PROFIT ON COST OVER

57%

1 Doz. ROTOfresh (Retail 1/8) at 13/4 per doz. 13s. 4d.
 3 Doz. ROTOsan Discs (Retail 1/3) at 10/- per doz. £1 10s. 0d.

5% BONUS

£2 3s. 4d.
 2s. 2d.
 £2 1s. 2d.

BONUS PARCEL 'B'

YOUR PROFIT ON COST OVER

62%

1 Doz. ROTOsan Juniors (Retail 2/6)
 at 18/6 per doz. (plus 1/3 P.T.) 18s. 6d.
 2 Doz. ROTOfresh (Retail 1/8) at 13/4 per doz. £1 6s. 8d.
 3 Doz. ROTOsan Discs (Retail 1/3) at 10/- per doz. £1 10s. 0d.

7½% BONUS

£3 15s. 2d.
 5s. 8d.
 £3 9s. 6d.

ABOVE OFFER CLOSES MARCH 29th**EXTRA****SPECIAL DISCOUNTS ON QUANTITY ORDERS FROM OUR FULL RANGE****ROTOsan TRADE PRICE LIST**

		Per Doz.	Retail
ROTOfresh	...	13/4	1/8
ROTOsan Discs	...	10/-	1/3
ROTOsan Juniors	...	18/6	2/6
ROTOsan Automatics	...	42/6	5/6
Superfume Crystals	...	16/-	2/-
Channel Blocks	...	12/-	1/6
per packet of 3			

ORDER NOW YOUR OWN ASSORTMENT.

Make extra profit by taking full advantage of ROTOsan quantity order discounts. Any assortment of ROTOsan products qualifies for the following Discounts:— Trade value £3 or over **5% Discount**
 Trade value £5 or over **7½% Discount**

Note: Bonus parcels do not also qualify for Quantity Discounts.

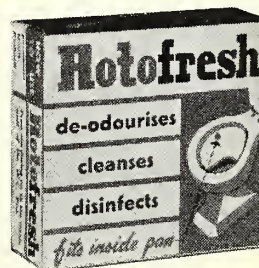
★ The manufacturers of ROTOsan products offer you these special 'stocking-up' BONUS OFFERS, and as you can see they bear a very handsome profit margin. You mustn't miss this! In addition there are generous discounts on orders from the full ROTOsan range.

This year an intensive sales drive on I.T.V. and supported by a big advertising campaign in the leading women's big-circulation publications will increase the demand for ROTOsan and introduce:—

A NEW PRODUCT TOO... with a really great Sales potential...

This product will 'catch on' without doubt, and there's very good business for you in

ROTOfresh
 Modern TOILET HYGIENE



Fits inside Toilet Bowl
IT'S A WINNER

Smartly packed, telling its story at a glance, the new pack containing ROTOfresh Disc, Plastic Pin, and Easy fitted Rubber Sucker Attachment.

Retails at **1/8**

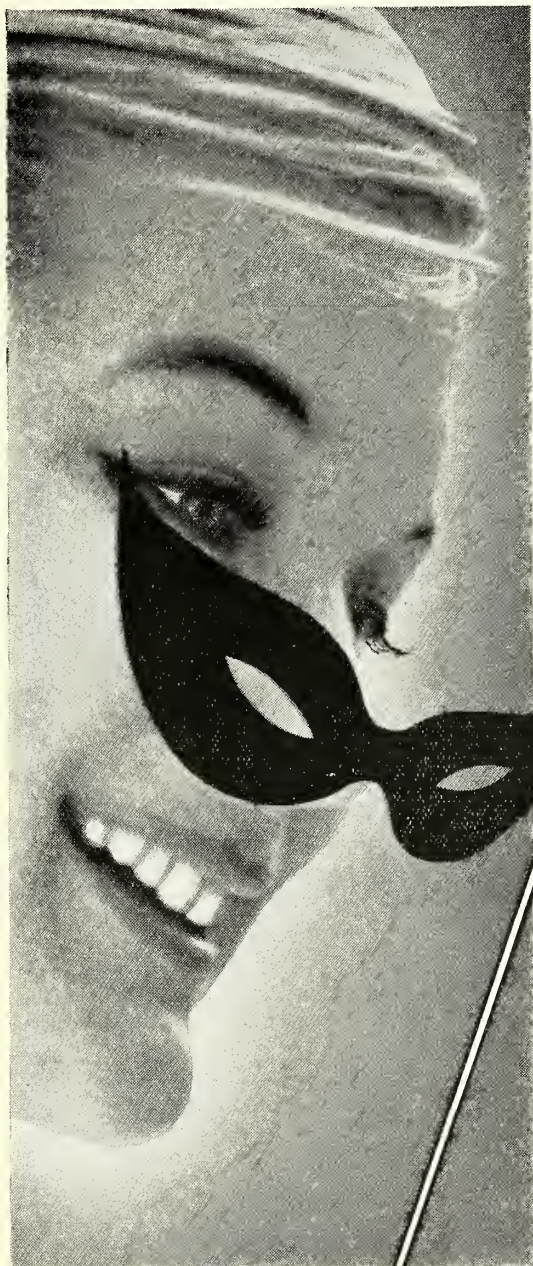
Full details on application to:

W. & F. WALKER LTD.

Sole Manufacturers of ROTOsan Products

KIRKBY · LIVERPOOL

or from our Representatives



Barnet Combs sell on sight . . .

Backed by extensive TV advertising, Barnet combs in their elegant quick-sale cabinets sell themselves . . . impulse sales to add to other purchases . . . extra profit from only the effort of putting a Barnet cabinet on your counter!

And remember Barnet REFILLS show you up to 72% profit mark-up all the year round.

ORDER NOW from your wholesaler and cash in on Barnet's big TV campaign.



There are ten wonderful cabinets to choose from in Barnet's superb new 'Gold' range including NYLON combs with a FIVE YEAR GUARANTEE.

Barnet Combs now on

TV

LONDON • MIDLANDS • NORTHERN

Manufactured by (Wholesale only)

E. R. Holloway Limited, Bessemer Road, Welwyn Garden City, Herts. Telephone: Welwyn Garden 4444

Special Bemax Bonus

To support heavy post-influenza advertising

AVAILABLE FEBRUARY 10th - 22nd

The great success of our Bonus Offer last autumn has been followed by steadily increasing sales and still more Bemax advertising in the National and Provincial Press, Women's Magazines, RADIO TIMES and READER'S DIGEST, with a combined circulation of over 41,000,000 copies. Such success encourages us to make this further Bonus Offer — available between February 10th and 22nd. Get your order in early. Make sure of your Bonus NOW!



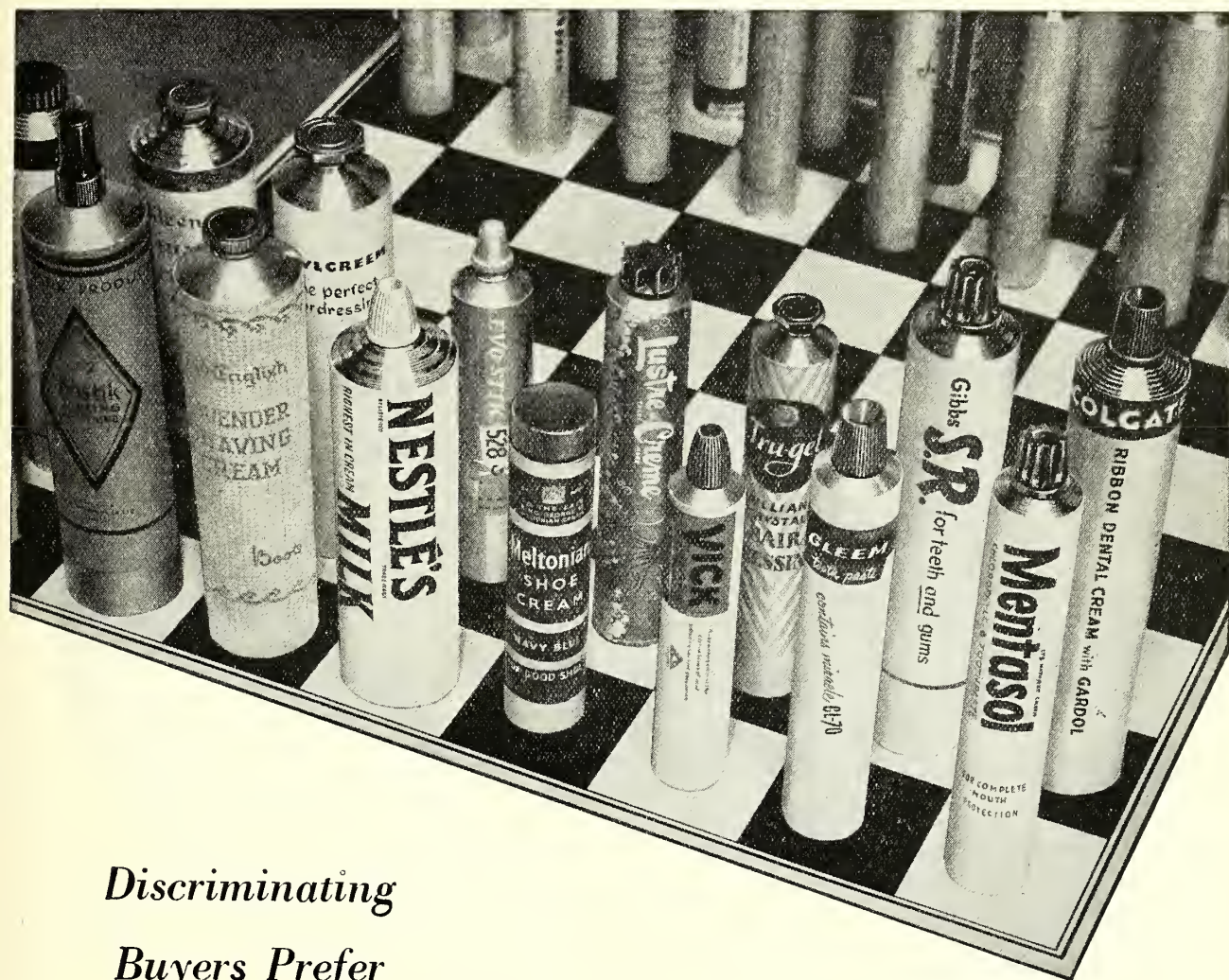
PARCELS		STANDARD LIST PRICE	QUANTITY TERMS	★ SPECIAL BONUS DISCOUNT equivalent to 13 to the dozen DEDUCTED FROM INVOICE	BONUS TERMS	PROFIT
BX.1	6 dozen x 1/9 size	99/-	96/-		88/-	38/-
BX.2	3 dozen x 3/- size	85/6	81/9		75/-	33/-
BX.3	1½ dozen x 5/6 size	78/9	75/-		68/9	30/3
BX.4	2 dozen x 3/- size ½ dozen x 5/6 size	83/3	79/6		72/11	32/1
BX.5	1 dozen x 1/9 size 1½ dozen x 3/- size ½ dozen x 5/6 size	85/6	81/11		75/-	33/-

* **Window & Counter Displays** *
* for BEMAX must be made for *
* at least 14 days. Special *
* Display material will be sent *
* with each bonus parcel. *

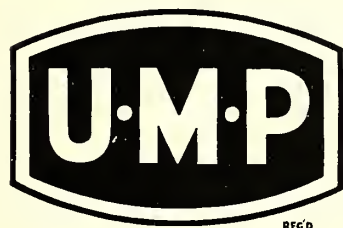
★ The above Bonus discount is additional to the existing trade discounts as well as the discount allowed on the quantity orders.

ACT NOW!

Send your order immediately to:
Sales Dept. (CD) Vitamins Limited, Upper Mall, London, W.6



*Discriminating
Buyers Prefer*



*For Tubes
and Plastics*

*... for a move in the
right direction!*

UNIVERSAL METAL PRODUCTS LTD.

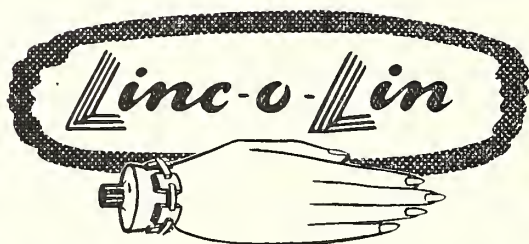
SALFORD 6 LANCs.

Telephone: PENDLETON 4444

LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1. TEL. TERMINUS 2073

★ From the makers of the **FAMOUS**
LINC-O-LIN BEER SHAMPOO
ANOTHER WINNER!

Already acclaimed by thousands of women



Hand Cream

THE NEVER BEFORE 'HAND' PACK
 containing approximately 4 oz.

Here it is illustrated, and the available colours are delicate pink, blue or green. This lovely flexible polythene pack is a "quick sales" aid—

THE HAND-CREAM WILL BRING CUSTOMERS BACK FOR MORE



THE HAND CREAM . . .

a highly concentrated cream marketed for many years as a "make-it-yourself" pack through an associated company, it has met with success everywhere. Acclaimed by thousands of women (and many men) it is protective, it restores chapped hands quickly to soft suppleness, and it is delicately—very delicately—perfumed.

ORDER NOW FROM YOUR WHOLESALE

DISPLAY BOXES OF ONE DOZEN • PRICE TO RETAILERS
 MIXED COLOURS, PINK, BLUE & GREEN • 57/- per dozen box, including 90% P.T.

*Now in this
 Elegant
 'Hand' Pack!*



RETAIL
 PRICE
6/6



LINCOLN HAIR PRODUCTS LTD

55/57 STRAFFORD ROAD • LONDON W.3. • Tel: ACO rn 6791 (Three lines)

*The safe
anthelmintic*

CARNEGIES RHOMEX

For the treatment of Threadworm and Roundworm

NON-TOXIC

Easy to take

In ELIXIR and TABLETS

IMPORTANT

"When you buy Rhomex you can buy with absolute confidence, because the Piperazine used in the manufacture is synthesized in our fine chemicals factory by a new process, the result of three years' intensive research by our development chemists and engineers. The Piperazine produced by this process is of the highest purity and completely free from undesirable and toxic by-products, a strict check on the quality being constantly maintained by our analytical and control chemists."

RHOMEX TABLETS

are available in
bottles of 25, 50
and 100 tablets

A "Tree of Life" Product



Regd. Trade Mark



RHOMEX ELIXIR is available in 4½ oz. polythene bottles in display outers of 12, and in 2-litre polythene dispensing packs.



CARNEGIES OF WELWYN LIMITED

Manufacturers of Fine Chemicals WELWYN GARDEN CITY • ENGLAND

Telephone: WELWYN GARDEN CITY 5001 (10 lines) • Cables: CARNEGIES, WELWYNGARDENCITY • Telex: LONDON 28676

ESTABLISHED 1911

The logo is a red rounded rectangle with the text "StaffordAllenS" in white. The "S" is significantly larger than the other letters. Below the main text, in smaller white capital letters, is "FOUNDED 1833".

StaffordAllenS

FOUNDED 1833

SPICE OLEO-RESINS

•
GINGER
•
CAPSICUM
•
PEPPER
•

The concentrated flavour and pungency of the
natural spices.



Send us your enquiries and orders

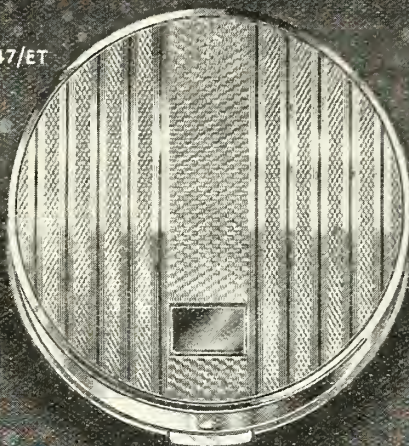
STAFFORD ALLEN & SONS LTD., WHARF ROAD, LONDON, N.I. Phone : CLerkenwell 1000

TAS/AL. 595

635/263



547/ET

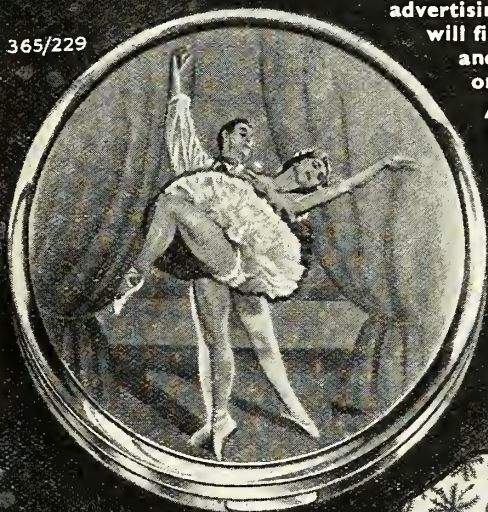


Stratton

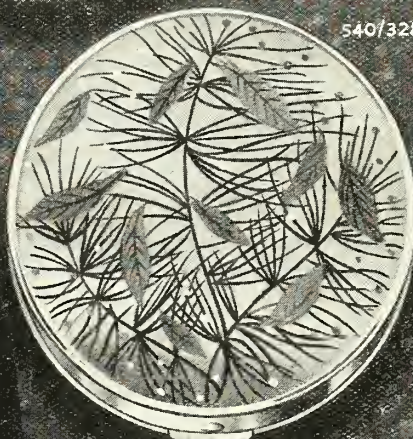
Quality, originality in design and styling, yet priced so that every woman can own a Stratton compact makes this latest selection a great attraction for your showcase. Backed by a powerful advertising campaign, you will find these Compacts and Matching Accessories a profitable line

Ask your wholesaler for full details of the Stratton range.

365/229



540/328c



540/20



525/332



JARRETT RAINSFORD & LAUGHTON LTD • BIRMINGHAM 14 • ENGLAND

LONDON: 100 DEAN ST. W.1 (GERRARD 3473) • MANCHESTER: 11A, HIGH ST. 4 (BLACKFRIARS 8401) • GLASGOW: 60, ST. ENOCH'S SQ. (CEN 1231)

FOR 2 MONTHS • 12½% EXTRA



ON THIS MODEST MINIMUM ORDER:
6-3/9 CARTONS AND 24-1/- TRIAL SIZE SACHETS
(both in convenient display outers)

YOU WILL RECEIVE 24 SACHETS FOR THE PRICE
OF 21.

This means that on this small order your profit is
13/9 as against the normal 11/6.

This offer is on any quantity of ZERO sachets
above the minimum and lasts until 31st March,
1958.

FOR CHEMISTS ONLY

FROM FEBRUARY 1st NEW ADVERTISING

in selected Local Press, Woman's Weekly, Woman's Illustrated, Woman's
Realm and Woman's Day will offer millions of women every week
Free Trial Samples of ZERO.

ZERO THE ONLY WOOL SHAMPOO



PURCHASE YOUR STOCKS FROM YOUR REGULAR P.A.T.A. WHOLESALER.

THE POPULAR  PREPARATION
FOR THE RELIEF OF ACID INDIGESTION
Digestoids

NOW IN A NEW
'FLAT' PACK



Digestoids have been produced by the House of Meggeson to enable chemists to meet the popular demand for an antacid preparation in lozenge form, selling at only 1/- a carton. The new 'flat' pack is more convenient for pocket and handbag.

WHOLESALE PRICE 6/8 PER DOZEN (6 DOZEN OR OVER, 6/4 PER DOZEN) PLUS PURCHASE TAX. PACKED IN DISPLAY OUTERS CONTAINING 2 DOZEN.

NOW there's a new 'plus' in Evan Williams Wave Set!



BLUE SET now contains a generous portion of New Look conditioner to tone and beautify the hair.

GREEN GLOW SET now contains miracle Dyroxin, the secret glow ingredient hitherto exclusive to Hi-Glo shampoo.

UP TO 60% PROFIT FOR YOU!

There's a handsome new counter display unit in red, yellow and black containing six Blue bottles and six Green Glow bottles.

WHOLESALE PRICE: 8/6d. PER DOZ • RETAIL PRICE: 1/8d.

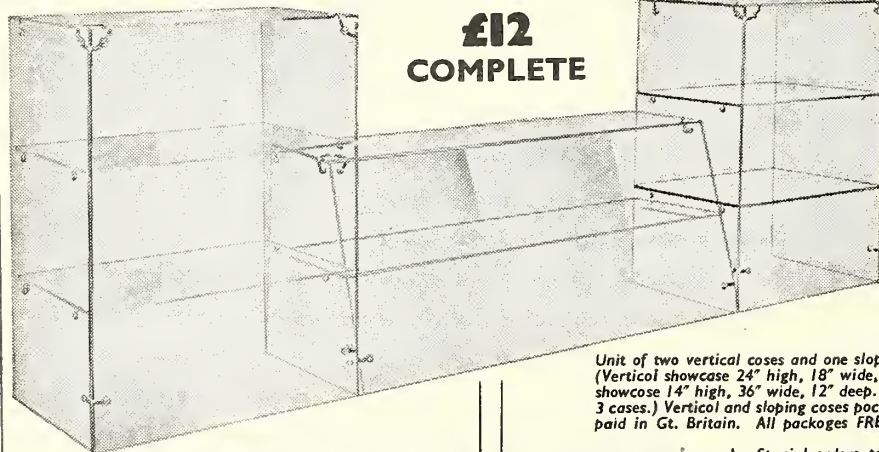
Reductions on Parcel Terms: In a £4 parcel, 8/- per dozen (54.1% profit on cost); in an £8 parcel, 7/8d. per dozen (60.8% profit on cost). Carriage is paid on all orders value £2 and over.

Give these best sellers a big show for bigger profits!

EVAN WILLIAMS CO LTD • AINTREE ROAD • PERIVALE • MIDDLESEX

It's crystal clear...

The more they SEE, the more they BUY



**£12
COMPLETE**

The beauty of a Martin glass display case is that it shows merchandise of every description to your customers' best advantage. Each individual case, with its gleaming chrome fittings, is tested and guaranteed before delivery. Choose a vertical or sloping showcase and build better business from the moment it is installed.

Unit of two vertical cases and one sloping case. Price per set £12. 0. 0. (Vertical showcase 24" high, 18" wide, 12" deep. Price £4. 5. 0. Sloping showcase 14" high, 36" wide, 12" deep. Price £4. 5. 0. You save 15/- on 3 cases.) Vertical and sloping cases packed separately. All prices carriage paid in Gt. Britain. All packages FREE of charge and NON-returnable.

★ Special orders to customers' own requirements carried out quickly. Quantity orders on application.

MARTIN'S GLASS DISPLAY CASES

LOOK INTO IT TODAY—EQUIP YOUR SHOP THE MODERN WAY! Send immediately for fully illustrated leaflet of Martin Display Cases and prices.

Name

Address

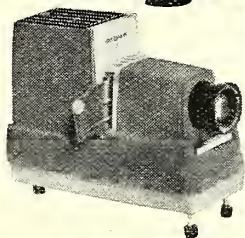
Post to: MARTIN DISPLAY (Dept. CD), 52 Market St., Watford, Herts. Tel: Watford 9287

A WINTER TONIC FOR THE TILL! argus

advertising on ITV and
in the Press



argus 300 Projector



4" wide angle lens, helical focussing, precision made, four element condenser system, quickly removable for easy cleaning, blower cooled, yet silent.

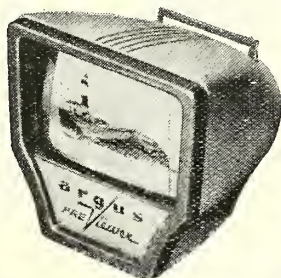
Price £21.19.6

argus

Previewer

2" x 3" picture. Twin lens optical system. Wide TV style screen, handsomely styled and beautifully finished.

Price 75/-



1,764,000 Viewers on ITV and A.R.

Commencing January 4th, regular 15-second films will appear, alongside such popular programmes as "The 64,000 Question", "Saturday Spectacular", "Film Festival" and "Saturday Serial".

Argus Advertising in over 12 million copies of these magazines!

Argus will be strongly advertised to the well-to-do readers of HOUSE BEAUTIFUL • HOUSEWIFE • LISTENER LILLIPUT • PUNCH • IDEAL HOME • HOMES & GARDENS • GOLF ILLUSTRATED • AMATEUR PHOTOGRAPHY PHOTOGRAPHY • and other journals.

The big Press and Television drive continues for the Argus 300 slide projector and the Argus Previewer. Best of their kind on the market, these two Hanimex products sell on two strong points; design and performance. Both are life-guaranteed. Your customers are seeing them now in the Photographic Press, National Magazines and on TV. They will expect *you* to have them in stock.

HANIMEX PRECISION PRODUCTS

HANIMEX (U.K.) LTD.
345 CITY ROAD, LONDON, E.C.1
Tel: TERminus 7424-7

*No
price
increase
in*

Southalls

'Blue Star'

SIZE 1 STILL 2/-

and

'ORIGINAL'

SIZE 1 STILL 2/3

SOUTHALLS (BIRMINGHAM) LTD.
CHARFORD MILLS BIRMINGHAM 8
makers of sanitary towels for over 70 years



36 Full Size Swabs for 1/-
• 100 for 2/6

Single Tipped, splinterproof,
hygienic. Uniquely packed.
Every stick visible and handy.

MANUFACTURED BY

PAPERSTICKS LIMITED

41-43 North Rd., Southend-on-Sea, Essex

Millions of men and
women know that it's
KAY'S
for coughs

* feature Kay's display material
prominently on your counter

KAY'S
LINSEED COMPOUND

in syrup for the home — in pastilles for the pocket

Vaseline*

HAND CREAM

SPECIAL RE-STOCKING OFFER

MINIMUM QUANTITY 3 DOZEN

**SPECIAL
PRICE 9'8^D DOZ.**



* Available on any quantity of 3 dozen or more ordered direct from Chesebrough-Pond's Ltd., Victoria Road, London, N.W.10.

* Increase your profit to 81% on cost (less tax).

* This offer is open for a limited period only.

ORDER NOW

**RETAIL PRICE 2/4d
(inc. tax)**

*REGISTERED TRADE MARK

4435

To meet an ever
increasing counter
and prescription
demand for

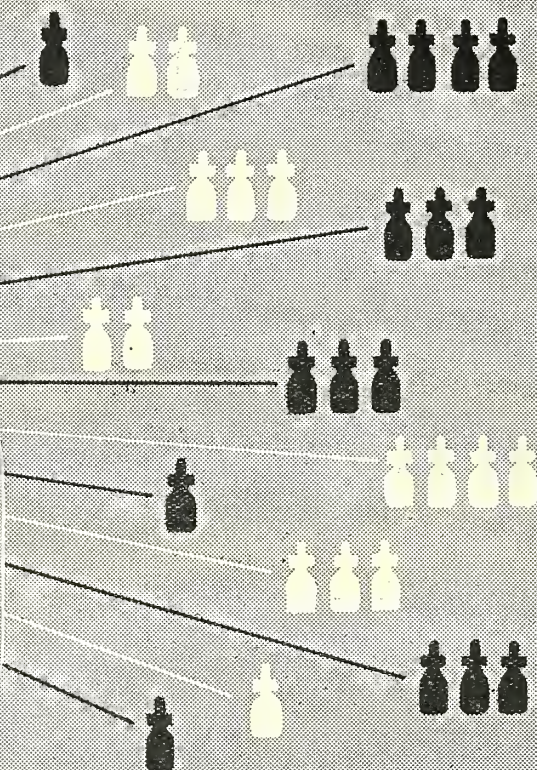
FENOX

NASAL DECONGESTANT

*Make sure your stocks
are adequate*



Supplies may be obtained
through your usual wholesaler or
through the Wholesale
Division of Boots Pure Drug Co. Ltd.,
Station St., Nottingham. Tel: Nottm.
45501 or 71 Fleet St., London, E.C.4.
Tel: Fleet 0111



Count on
Calsalettes
for Sales!

The advertising campaign for
Calsalettes is still running in
the national press. Be sure that your shelves
can meet the demand!

*Calsalette advertisements are appearing in the Daily
Sketch, Woman's Weekly, Woman's Illustrated,
Everywoman, Modern Woman, She,
Housewife, Everybody's, Reader's
Digest.*

TORBET LACTIC OAT CO. LTD.
24 GREAT KING STREET, EDINBURGH 3.
Tel: WAY 3801

Yalcs
Superfine

NYLON ELASTIC HOSIERY

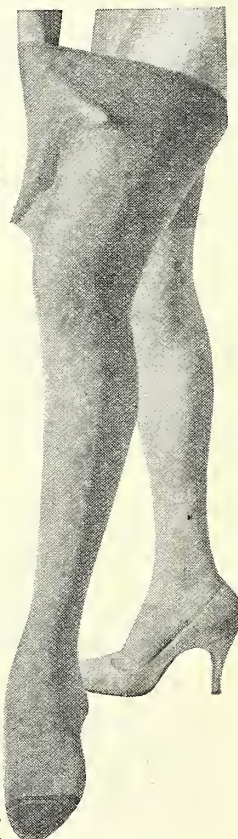
is being widely advertised in leading Women's Magazines. Be prepared for the demand for these revolutionary surgical stockings which give women leg glamour as well as support for varicosity. A slightly heavier quality Yalcs SERVICE is available against N.H.S. prescription.



Display material, leaflets,
shade cards available
on request.

Enquiries to:

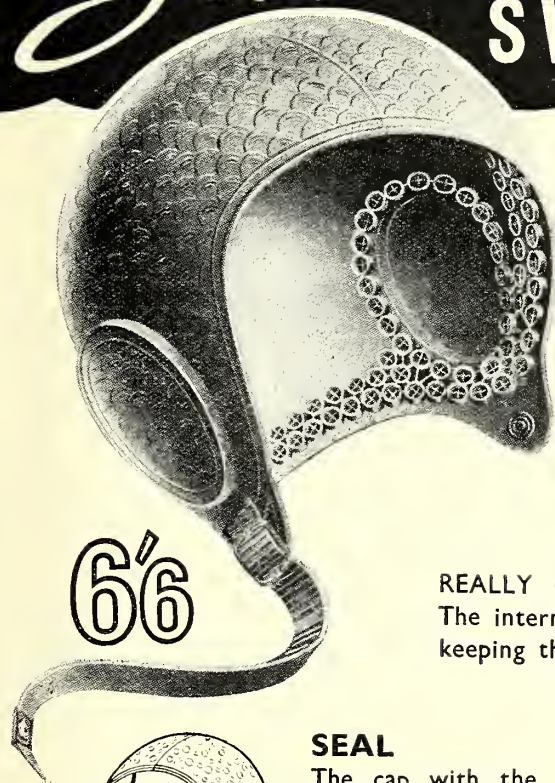
GLENSIDE (LONDON) LTD.,
37 PERCY ST., LONDON, W.1.



Submarine

REGD.

SWIMMING CAPS



HEAVILY ADVERTISED

IN THE NATIONAL PRESS

Continuous advertising through May, June, & July in Woman, Woman's Own, Woman's Journal, Woman & Beauty, Everywoman, Woman's Illustrated, She, Modern Woman, Vanity Fair, Vogue, Harper's Bazaar, etc.

TRIDENT

REALLY COMFORTABLE, Featherweight and stretchy. The internal suction cups fit every contour of the head, keeping the hair absolutely dry.

'The secret is in the suction cups'.



SEAL

The cap with the watertight inner flange, which forms an air pocket to keep hair bone dry.

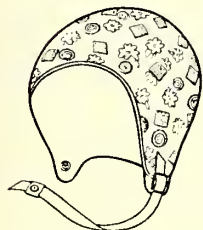
4/9



PENGUIN

Fitted with soft rubber flanges and ear recesses. Proved, over the years, one of the most popular and efficient swimming caps.

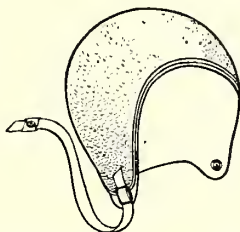
3/6



STANDARD

Attractive designs, light weight stretchy rubber.

2/11



CLIPPER

Plain stipple, ideal for schools and swimming clubs.

Clipper 1. With strap. Four Sizes. 2/11

Clipper 2. Strapless Model. Four Sizes. 2/6

Clipper 3. Man's Polo Cap. 2/11

Submarine swimming caps offer the most comprehensive range in the world.

They are made from the best quality rubber, and are thin, stretchy and long-lasting. The finish is immaculate, the designs attractive, and the fit unexcelled. Prompt deliveries throughout the season.

In addition to attractive display material, the SEAL and TRIDENT caps are individually sleeved, and packed in attractive one-dozen display outers, and the PENGUIN caps are each in a polythene bag.

EACH CAP IS UNCONDITIONALLY GUARANTEED.

SUBMARINE SWIMMING CAPS CREATE LASTING GOODWILL.

W. W. HAFFENDEN LTD · RICHBOROUGH RUBBER WORKS · SANDWICH · KENT

A PAIN-RELIEVING Embrocation without messy hands?

Make a Note of **Ralgex**

in handy stick form

Many people suffer pain because the remedy is inconvenient. Not so with Ralgex! Ralgex is the solid embrocation in a handy container, easy to apply without help, to back and shoulder areas which cannot be reached effectively by your finger tips. Ralgex penetrates deeply at a touch—no rubbing is required—and in the compact holder, is ready to give quick, soothing relief right on the spot at any time.

REACH-IT YOURSELF RELIEF
from pain caused by **STRAINED MUSCLES, RHEUMATISM, LUMBAGO, STIFF NECK, BACKACHE and NEURALGIA**

Ralgex
THE SOLID EMBROCATION From all Chemists
in Handy Stick Form

PHARMAX LTD., WESTERN HSE., GRAVEL HILL, BEXLEYHEATH, KENT

Total Circulations
over 90,000,000

The Merit of
Ralgex
+
Good
Advertising
=

RAPID INCREASE IN SALES

Reach the
TROUBLE SPOTS

Ralgex solid embrocation in its handy 'shaving stick' container gives quick, acting relief by just a touch—no rubbing-in is required.

The Handy **RALGEX STICK** reaches Back, Shoulders and Neck areas out of reach of your finger tips

Take it for certain that Ralgex will give immediate relief from muscular pains and aches. Ralgex penetrates right through the skin layers relaxing those 'caught-up' areas, bringing back the ability to stretch and bend without fear. Ralgex is clean and handy to use, has effective medicaments—with the added advantage of self-application.

Ralgex
SOLID EMBROCATION
For Quicker Relief from pain caused by
BACKACHE, LUMBAGO, STIFF NECK, NEURALGIA, RHEUMATISM & STRAINED MUSCLES.

PHARMAX LIMITED, WESTERN HOUSE, GRAVEL HILL, BEXLEYHEATH, KENT

These
advertisements appear
regularly in over 100 papers.

Nation-Wide advertising campaign, featuring:
Self Application—Solid Embrocation in Handy Stick Form—Cleanliness and Convenience.

Ralgex is selling faster than ever for the Relief of Pain due to:

BACKACHE — NEURALGIA — STIFF NECK — LUMBAGO — RHEUMATISM — STRAINED MUSCLES
DISPLAY RALGEX

and prove in your own shop that if seen—easy to examine—easy to touch—sales go up and up.
Ralgex is a first-class pick-up repeater line. Very attractive show material gladly sent on request.

PHARMAX LIMITED, GRAVEL HILL, BEXLEYHEATH, KENT.



We specialise in supplies to the **VETERINARY CHEMIST**

under 'own name' Packs

Supplies now available of 'DEHORNING
OUTFITS' for the Chemical dehorning of
calves under 7 days old.

Also **WARBLE FLY POWDER** in 1 lb. cartons containing 4 x $\frac{1}{2}$ lb. envelopes, this season
commences March 15th and continues until late in the Summer.

CATTLE LOUSE POWDER in either B.H.C. or DDT Types, sprinkler top tins in 3 sizes.
ewe DRINKS, LAMBING OILS and SHEEP DIPS.

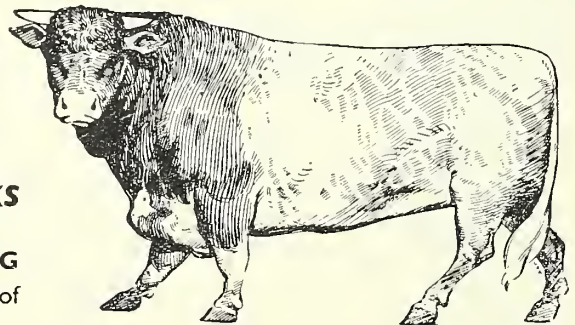
1958 Trade List now available on request.

BATTLE, HAYWARD & BOWER LTD.

Victoria Chemical Works, LINCOLN.

Phone : Lincoln 20612.

Grams : Shears, Lincoln



Have you thought about
AIR FREIGHTING
to and from Europe?



FOR EXAMPLE - GERMANY

London and Berlin, Cologne, Dusseldorf, Frankfurt, Hamburg
Hanover, Munich 49 flights per week
Birmingham and Dusseldorf 4 flights per week
Manchester and Dusseldorf 4 flights per week

In addition there are **FIFTEEN ALL-FREIGHT FLIGHTS**
each week to and from

DUSSELDORF, FRANKFURT, HAMBURG, STUTTGART

BEA operate daily direct flights to all main
commercial centres in Europe

HERE ARE EIGHT REASONS WHY YOU SHOULD

Transit time cut from days to hours

Packing costs cut by up to 95%

Lower insurance rates

Special cheap rates for many products

No warehousing or stock piling

Negligible losses through breakage, theft or exposure

More markets within easy reach

A quicker return on your capital

Some or all of these reasons apply to your overseas trading. For detailed information on how to make the best use of BEA Air Freight Services, consult your Forwarding Agent, or nearest BEA office. Or write to this address: BEA Air Cargo Depot, 14 Dilke Street, Chelsea Embankment, London, S.W.3.

FLY FREIGHT BEA ALL OVER EUROPE



BRITISH EUROPEAN AIRWAYS



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 169

February 8, 1958

No. 4068

CONTENTS

Belfast Pharmacists Honoured	144
Branch Events	150
Contracts for Hospital Drugs	144
Correspondence	158
Developments in the United States	159
Gibberellic Acid	155

Leading Articles:—

"Fair Wear and Tear"	153
Horticultural Counter	153
Merchandising Manager (verse)	153
New Oral Diuretic	154
Onward from Galen	154
"Open Shop"	157
Organic Preparative Methods	152
Preston Branch Dinner (Cartoon)	151
Specifications for Prepared Drugs	145
Synthetic Analgesics	159
The Wholesaler in Pharmacy	156
Topical Reflections	143
U.S. Stockpile Policy	164

Business Changes	146	P.A.T.A.	166
C. & D. Retail Price List	165	Personalities	147
Coming Events	165	Price Changes	166
Company News	146	Print and Publicity	166
Deaths	147	Trade Marks	164
Horticultural Notes	148	Trade Notes	149
In Parliament	146	Trade Report	160
Legal Reports	146	Wills	164
New Products	149	World Trade	164

INDEX TO ADVERTISERS, Pp. 5 & 6.

Classified advertisements, P. 56.

PUBLISHED BY
MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood.
GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
LEEDS: 16; 32 Wynford Rise, West Park. Phone: Leeds 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and
Year Book, £2 10s. Single copies one shilling each.

Are you using the **P**hilishave **E**asy **P**ayments scheme

to 'PEP' up your sales even higher?

The 'Philishave' Easy Payments Scheme is having a striking success in extending the sales appeal of the 'Philishave' to the widest possible market. There's no doubt that dealers who operate this scheme will have a big advantage over those who don't. Look at the advantages of the scheme and you'll see why!

- * It can definitely increase your sales.
- * It is very easy to operate.
- * It involves minimum dealer responsibility. No risk of bad debts!
- * It offers ideally easy terms.

PHILIPS PHILISHAVE

the dry shaver with the biggest world sale

If you haven't yet got a leaflet about the 'Philishave' Easy Payments Scheme, post this coupon today for full information:

**Philips Electrical Limited,
Electrical Appliances
Division, Century House,
Shaftesbury Avenue,
London W.C.2**

NAME

ADDRESS

CD2

(PS932)

WELLCOME INSTITUTE LIBRARY	
Coll.	WelMOMec
Coll.	
No.	



The CHEMIST AND DRUGGIST

Volume 169

FEBRUARY 8, 1958

No. 4068

Safe Use of Pesticides GOVERNMENT RECOMMENDATIONS

OFFICIAL recommendations for the safe use of pesticides are contained in a dossier issued on January 30 by the Ministry of Agriculture, Fisheries and Food.

The recommendations are the result of a voluntary notification scheme, under which manufacturers notify the Departments of Health, Agriculture and Food whenever they propose to introduce new toxic chemicals and formulations for use in agriculture and food storage, so that the Departments may advise on the measures which should be taken in the use of such preparations for the protection of workers and of consumers. The notifications are considered by the advisory committee on poisonous substances used in agriculture and food storage, which keep under review the risks that might arise from the use of toxic substances in food production and storage and advise the Ministers concerned. Additional pages are to be added to the dossier from time to time.

Narcotics Estimate, 1958

SYNTHETICS WIDEN CONTROL PROBLEM

THE appearance of a number of new drugs, most of them synthetic, has widened the problem of the control of narcotic drugs considerably, states the Drug Supervisory Body of the United Nations in a report on "Estimated Requirements of Narcotic Drugs in 1958." In 1954 there were estimates for thirty-two drugs, seventeen natural and fifteen synthetic, whereas the 1958 statement contains forty-four: twenty natural and twenty-four synthetic. The following figures taken from the report give the requirements in kilos for the nine most widely used narcotics in the United Kingdom with world figures in parenthesis. Morphine 15,550 (110,408); diacetylmorphine 60 (98); cocaine 140 (2,224); codeine 9,750 (95,263); ethylmorphine 160 (7,673); pholcodine 310 (1,016); pethidine 1,300 (16,034); methadone 100 (678); phenadoxone 30 (53). The report is obtainable from H.M. Stationery Office, price 4s. 6d.

Sulphuric Acid

PRODUCTION AND SALES UP IN 1957

PRODUCTION of sulphuric acid by members of the National Sulphuric Acid Association, Ltd., in 1957, rose to 2,775,690 tons (calculated as 100 per cent. H_2SO_4) from 2,251,180 tons in 1956 and represented 84.2 per cent. of production capacity (against 80.8

per cent.). In the last quarter of the year production was 679,350 tons or 88 per cent. of production capacity. Sales in the quarter amounted to 606,673 tons making a total for the year of 2,371,060 tons (2.24 millions). The summaries do not include production or sales by Government plants.

Laboratory Chemists

NEW MINIMUM SALARY SCALES

THE British Association of Chemists has issued a revised scale of minimum salaries for chemists and chemical assistants. Minimum salary for a senior chemist in posts carrying exceptional responsibility is £2,000 per annum with a £1,400 minimum for senior chemists engaged in posts at executive or management level. After one year's experience, either industrial or academic, qualified chemists of over twenty-five years are to get a minimum of £800 rising by increments of not less than £60 per annum for a minimum of ten years. At twenty-three years of age but without post-graduate experience the rates are £680 per annum with increments as above; at 22, £620 and at 21, £560.

Outdoor Advertising

CODE OF STANDARDS PROPOSED

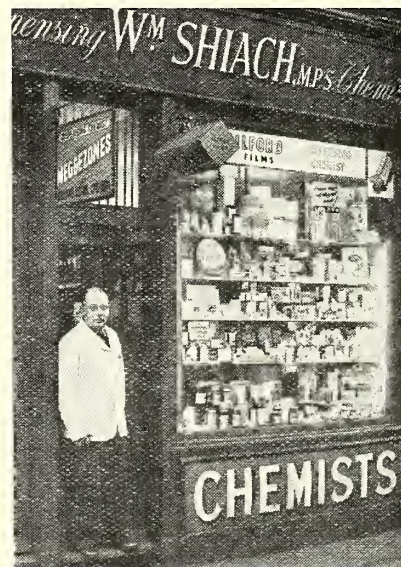
A CODE of standards for outdoor advertising prepared by a technical advisory committee is suggested by the Outdoor Advertising Industry Advisory Committee. In a recent memorandum to the Minister of Housing and Local Government on the proposed alterations to the Control of Advertisements Regulations, they submit that the new draft Regulations would do more harm than good from an amenity point of view. Many shopkeepers and trading organisations were still largely unaware that the Regulations, if introduced, would affect most shops and business premises where advertisements were displayed. Some of the changes proposed by the Minister are to alter the limits within which advertisements may be erected on business premises with "deemed consent" so that: height from the ground becomes the height of the fascia, or 15 ft. whichever is the lower; no advertisement shall exceed 3 ft. in height;

no advertisement shall project from the face of the building more than one foot; no advertisement shall be allowed on the residential part of the business premises; no advertisement shall be allowed in the forecourt unless it is attached to the building; no advertisement shall be allowed on a wall which is attached to the business premises and to withdraw in five years' time the right to display advertisements erected before the date of the new Regulations if they do not conform with the new restrictions. The proper remedy for the "clutter" of advertisements on business premises, state O.A.I.A.C., is to educate shopkeepers and advertisers throughout the country to a sense of awareness that there are a right and a wrong way of displaying advertisements.

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 2.9 per cent. lower in November 1957 than in October but 12.7 per cent. higher than in November 1956. Large retailers' sales were 28.6 per cent. higher in November 1957 than in October and 13.4 per cent. higher than in November



FACES EVICTION: After nearly twenty-nine years in business at Southwark, South London, Mr. William Shiach, M.P.S., faces eviction. The London County Council is proposing to demolish his shop at 69 Long Lane and adjoining property to make way for a children's playground. Mr. Shiach, who was said, at an inquiry held by the L.C.C. on January 28, to be the only chemist in the vicinity, was told the Council would do all it could to provide alternative accommodation for the business in the area.

1956. Sales by Co-operative societies were 13.3 per cent. higher in November 1957 than in October and 13.9 per cent. higher than in November 1956. The figures do not allow for receipts under the National Health Service.

Cosmetic Colourings

PLEA FOR PERMITTED LIST

"PIGMENTS, Lakes and Dyestuffs in Cosmetics" was the subject of the lecture given by Mr. D. F. Anstead to the Society of Cosmetic Chemists recently. Mr. Anstead concentrated on organic dyestuffs and pigments, and explained that the properties of the pigments were dependent upon the method of manufacture. Special properties such as light-fastness and tendency to "bleed" into oil or water were discussed with reference to soap, bath crystals, face powders, lipsticks, foundation lotions and creams, cake make-up, nail varnish, and preparations in oil, water or alcohol. Not only did the method of manufacture modify the properties of the pigments, but other components present in the cosmetic product might play a part. Mere dilution might affect the light-fastness of a colour; perfume might affect not only light-fastness, but also tendency to "bleeding" and shade. Examples were given by the advantages which followed close co-operation between the colour manufacturer and the cosmetician. The difficulties encountered in colouring foundation creams and lotions and cake make-up could be eliminated when the pigment manufacturer made up the colour in paste form in one of the basic media of the cosmetic product. The processing together of coloured and white pigments for nail varnishes was also best carried out at the stage of manufacture of the pigment, so that streaky white separation in the bottle could be avoided. The softness of texture and ease of dispersion of a pigment could change through alteration in particle size and formation of aggregates during filter-pressing and subsequent drying. Aggregates formed at that stage were not inevitably broken down during subsequent grinding. A recent promising development in pigment manufacture was to provide the particles with a hydrophilic film for dispersion in water and with a hydrophobic film for dispersion in oil, aggregation being prevented. The hope was expressed that the Toilet Preparations Federation would consider specifications for colours and introduce a list of permitted colours common to the permitted lists of as many countries as possible.

H-test Warning

RADIATION LEVEL CAUSING CONCERN

CONCERN at the high level of man-made radiation tolerated in the United States was expressed by Dr. T. C. Carter (a member of the Medical Research Council team, Harwell) when he addressed a course on radiation and health at Oxford on January 9. The level, he said, was over three times as high as in Britain. A petition calling for the stoppage of tests of nuclear bombs, signed by 9,000 scientists of

forty-four countries and submitted to the United Nations on January 13, included Sir Henry Dale and Dr. C. F. Powell.

Synthetic Detergents

MARKET MAY BE STABILISED

FIGURES for the annual consumption of synthetic detergents in the United Kingdom show very little increase during recent years and suggest that, unlike the years 1949-54, the market has now become stabilised. That is one of several conclusions arrived at by the standing technical committee on synthetic detergents in a recent progress report published by H.M. Stationery Office, price sixpence. Domestic consumption in 1955 is given as 34,500 tons (10,500 tons in 1949) and industrial consumption as 6,500 tons (2,500 tons in 1949). The committee is satisfied that the detergent manufacturers are making a serious attempt to comply with the Jephcott Committee's recommendations (Report of the Committee on Synthetic Detergents, 1956) that "... manufacturers of household synthetic detergents should investigate the feasibility of producing efficient washing products based on materials which can be readily oxidised or eliminated, and will not cause persistent foaming during sewage treatment by present available methods. Mr. H. W. Cremer is chairman of the committee.

American Salk Arrives

DELIVERY OF POLIO VACCINE

A FURTHER consignment of Salk polio vaccine arrived at Speke Airport, Liverpool, on February 5. The consignment, the first American vaccine to reach Britain, was flown by B.O.A.C. aircraft from New York. The two previous deliveries consisted of vaccine of Canadian origin. Delivery of the consignment, sufficient for approximately half a million doses, was taken by Evans Medical Supplies, Ltd., Liverpool, who started distribution to Medical Officers of Health.

Blackhead in Turkeys

AMERICAN TESTS WITH FURAZOLIDONE

RESEARCH workers of Maryland University, U.S.A., report satisfactory results in the treatment of blackhead in turkeys with furazolidone administered in feed. Concentrations of 0.011 per cent., 0.0167 per cent., and 0.033 per cent. were given to 124 turkey poult for eight to ten weeks. Whereas thirty-one of 122 untreated controls died, every one of 125 treated with furazolidone survived. At high therapeutic levels the growth of the birds was not significantly retarded.

Whitley Council Claim

REVISED SALARY STRUCTURE REJECTED

A CLAIM for a revised salary structure which was presented by the Staff side at a meeting of the Whitley Council for Pharmacy, Committee "C" on January 31, was rejected by the Management side. A meeting of the Staff side is to be held shortly to decide on the next steps to be taken.

IRISH NEWS

THE NORTH

Fire at a Pharmacy

TRAGIC CONSEQUENCES OF A MISHAP

A FIRE that broke out in the dispensary of the pharmacy of Mr. C. E. Moss, Ormeau Road, Belfast, caused injuries to a customer and two members of the staff of the pharmacy and resulted in the death of the proprietor (see p. 147). The customer, Mr. Peter Clerkin (head of the Department of Agricultural Bacteriology, Queen's University, Belfast), was taken to the Royal Victoria Hospital suffering from severe burns. His condition was described on February 3 as "serious but improving." Miss M. Lilley, aged eighteen (apprentice) and Mr. C. O'Neill, aged sixteen (dispatch clerk) were both discharged from hospital after treatment. Mr. Clerkin rushed out into the street with his hair and clothes on fire, and passers-by smothered the flames with overcoats. Prevented by flames from leaving by the shop entrance, Mr. O'Neill smashed an upstairs window of the premises and he and Miss Lilley climbed down a ladder which had been brought from the Belfast gasworks nearby. Passers-by entered the shop from the rear and pulled Mr. Moss out to the street. Benzene was being handled in the dispensary at the time of the outbreak.

Health Board

"FINES" ON CHEMISTS

THE Northern Ireland General Health Services Board, at its monthly meeting in Belfast on January 29, adopted a recommendation of the services committee to deduct £10 from the remuneration of a firm of chemists. The firm had been found to be in breach of their terms of service in that a test prescription for 12 oz. mist. pot. brom. et chloral was 45 per cent. deficient in chloral hydrate content. A representative of the firm stated that he had no explanation to offer other than that the chloral hydrate, which had been in stock since 1948, had deteriorated appreciably. The Board also adopted a recommendation to deduct £5 from the remuneration of a chemist because a test prescription was not dispensed by or under supervision of a registered pharmaceutical chemist.

SCOTTISH NEWS

Road and Rail Blocked

SO DRUGS DELIVERED BY SEA

DURING the storm in North-east Scotland, in the week of January 19, when road and rail communications were severed, William Davidson, Ltd., a wholesale drug house, Palmerston Road, Aberdeen, were looking for means of sending urgent orders of drugs and medicine to customers in Peterhead. Just when the position seemed hopeless, they learned of the arrival of a small motor fishing vessel which had brought an urgent hospital case to Aberdeen for treatment. The firm contacted the boat, arranged to have the orders taken aboard and shipped back to Peterhead.

NEWS IN BRIEF

A NEW laboratory for the manufacture of the Lepine poliomyelitis vaccine has been opened near Paris. It is expected to be producing 500,000 doses of vaccine a week within two months.

THE Royal Commission on doctors' and dentists' remuneration has issued a questionnaire to a "random sample" of doctors. Information is being sought about type of work and past remuneration.

THE organisers of the Perkin Centenary Celebration have completed their accounts and the organisation has been wound up. Total amount made available to the Perkin Centenary Trust over the years 1955-65 is £33,253.

THE social service aspects of the next Budget were being commented upon by London daily newspapers on February 5 following the presence of Mr. Derek Walker-Smith (Minister of Health) and Mr. John Boyd-Carpenter (Minister of Pensions) at a Cabinet meeting on February 4.

TAX reliefs for payers of surtax and profits tax, and the restoration of the investment allowance for industry to 40 per cent., are recommended by the National Union of Manufacturers in its annual letter to the Chancellor of the Exchequer before the Budget, published on February 3.

VOLUNTARY admission to mental hospitals is in future to be the normal method, Mr. Derek Walker-Smith (Minister of Health) announced on January 16. Certification, leading to compulsory detention in hospital, is to be used only when essential for protection of patient or public.

IN view of the changing public attitude toward receipts for payments made by cheque since the passing of the Cheques Act, 1957, and the consequent decrease in value to rating authorities of the receipt system for accountancy purposes, local rating authorities are being empowered, if they wish, to do without receipts for rates paid by cheque.

A DELEGATION from the Jugo-Slav Ministry of Health has arrived in the United Kingdom to examine British methods in the control of poliomyelitis and the production of the vaccine. The visit was arranged by the British Council. The delegation is to visit the Ministry of Health, laboratories of the Medical Research Council and of the firms making the vaccine, a clinic where immunisation is carried out, and hospitals where cases of poliomyelitis are treated.

DESIGNED primarily to bring together in one volume information about mortality from cancer during the present century "Cancer Statistics for England and Wales, 1901-1955," published on January 30, also contains some information on the survival of cancer patients who have been to hospital. During the past twenty years the total mortality from cancer has increased in men at every age, but has declined among middle-aged women. Excluding cancer of lung, death rates from cancer have declined in both sexes, except among children and very old persons. The report is obtainable from H.M. Stationery Office, price 5s. 6d.

TOPICAL REFLECTIONS

By Xrayser

Ancient and Modern

Your supplement dealing with the subject of modern packaging emphasises the fact that there is a constant striving for improvement in containers of all kinds, and it is of interest that glass continues to hold its own despite the developments in plastics and polythene. The reference to glass and its uses by the Romans for perfumes (p. 120) recalls still earlier accounts of packaging. In the Book of Joshua it is said that the Gideonites took "old sacks upon their asses and wine bottles old and rent and bound up." It seems obvious from the description that the bottles in question were of skin, and the ancient Egyptians are known to have used bottles made of hides. Though conditions have probably changed now, skins were still in use in Armenia a century ago, where wine was stored in ox skins and transported or kept for immediate use in the smaller skins of goats or kids. Such "bottles" could reasonably have been described as plastic, but their life was limited owing to hardening of the material. It is assumed, probably correctly, that that explains the statement that "men do not put new wine into old bottles, else the bottles break and the wine runneth out, and the bottles perish." But it would be wrong to suppose that bottles were made exclusively of animal skins, for the ancient Egyptians knew alabaster, glass and porcelain, using those materials for holding ointment or substances used for toilet purposes. In your editorial article on the subject (p. 127) you wisely insist that there are three parties to please with the container—maker, stockist and consumer—and that they must find a package efficient, pleasant to handle and attractive to look at. Under the heading of efficiency I would class ease of opening, and lack of that characteristic I have found the principal shortcoming in some modern packaging.

London's Water Supply

It is but a short step from wine in leather bottles to water in leather buckets—the mode of supply to those who, in earlier times, could afford the luxury of the services of the Guild of Water Carriers. Mr. P. B. Fasham, of the Metropolitan Water Board, made reference to that ancient fraternity in a most instructive talk on water to the South-east Metropolitan Branch of the Pharmaceutical Society (p. 118). According to Mr. Gordon Maxwell, London owes much to Sir Hugh Myddelton (1560-1631) goldsmith and banker, for his foresight in cutting a canal known as the New River for the purpose of giving the city a supply of pure water. Fierce opposition from the land owners, and lack of financial help from the County Council made Myddelton's task difficult, but King James I, on being appealed to, proved himself to be an enlightened monarch by giving aid—in return for a share of the profits. Tradition has it that Myddelton and Raleigh used to sit at the door of the goldsmith's shop in Basinghall Street and smoke the new tobacco, to the amazement of passers-by.

Danger Money

Christmas puddings have, metaphorically at least, made their appearance in the House of Commons. Mr. N. N. Dodds recently asked the Minister of Health if his attention had been drawn to the fact that in parts of a Christmas pudding adjacent to threepenny pieces there were 250 parts of copper in a million, and in the case of sixpenny pieces, 360 parts of copper in a million. There is thus revealed a new danger in plum puddings. Hitherto I had regarded the hazards as being confined to (a) swallowing the coin whole or (b) breaking a tooth. But the words "adjacent to" suggest that the lucky person is he who gets nothing but pudding on his plate, and the information should make it easier to appear a good loser. The situation is, therefore, that the degree of poisoning is directly proportional to the value of the reward; and that is perhaps as it should be. Who can tell, however, but that in far-off days they were equally knowledgeable? After all, who devised the tongue-twister "are they copper-bottoming him, mum?"

CONTRACTS FOR HOSPITAL DRUGS

Too little price competition according to Auditor General

THAT there is little effective price competition for the supply of a number of specialised drugs, mainly antibiotics, to hospitals under contracts negotiated centrally by the Ministry of Health is suggested by Sir Frank Tribe (Comptroller and Auditor General) in his report on the Civil Appropriation Accounts, 1956-57, published recently. Contracts for two antibiotics, valued at over £400,000, had been placed on the basis of single tenders, as there was apparently only one available source of supply in the United Kingdom. In the case of contracts for five other antibiotics with a total value exceeding £800,000, identical prices were quoted for forty-three out of fifty-nine items on the tender schedules and only single quotations were received for the remaining sixteen items. As prices did not appear to have been tested by cost investigation the Ministry had been asked what evidence they had that prices being paid were no more than fair and reasonable.

Uniform Prices

Sir Frank recalls that he had earlier asked the Ministry whether they were satisfied with prices for "a comparatively new hormone preparation" the first running contracts for the supply of all forms of which had effect from June 1955. Contracts, subsequently placed at six-monthly intervals, totalling £700,000 per annum, had remained unchanged and had resulted almost entirely from identical or single tenders. Manufacturers tendering for the first time normally did so at existing prices and contract prices were apparently the same as ordinary list prices paid by chemists.

In reply the Ministry stated that the contract prices had been fixed following open competitive tendering; the similarity between many of them appeared to derive from competition rather than lack of it and the ordinary list prices paid by chemists appeared to follow those fixed under the contracts. The Ministry had been given specific assurances by contractors that there was no collusion on prices. In the circumstances they considered that the prices must be accepted as fair and reasonable, and that the question of cost investigation did not arise. Although prices had been stable for two years the Ministry expected them to be influenced by new plant and processes that were being introduced, and had informed the Comptroller that one of the contractors concerned had in fact notified a reduction in prices for certain items covered by the contract, with effect from December 1957.

Discussion with the pharmaceutical industry on the prices of basic drugs had resulted in the acceptance of a scheme for regulating prices of certain proprietary preparations which was put into effect in June 1957. Since then, Sir Frank states, he had been informed by the Ministry that with changing conditions and developments the need for detailed cost investigation in some sections of the basic drug field might have diminished. The Voluntary Price Regu-

lation Scheme for proprietary preparations might provide evidence of the reasonableness of the cost of basic drugs.

Dealing with chemists' remuneration, Sir Frank comments that chemists who buy standard drugs and non-proprietary preparations at advantageous rates might make a profit from reimbursement at Drug Tariff rates. In England and Wales a pilot inquiry was carried out and in August 1957 it was reported that prices paid by chemists for most drugs were well below Drug Tariff rates. Discussions with representatives of the chemists and the Association of British Pharmaceutical Industry about the action called for in the light of that report, had begun.

In Scotland information had been

BELFAST PHARMACISTS HONOURED

Dinner to Messrs. Fred Storey and Henry McQuitty

REPRESENTATIVES of the Northern Ireland General Health Services Board, chemists from Northern Ireland and the Republic and members of the public bodies attended a dinner given by the Chemists' and Druggists' Society of Ireland in honour of Mr. Fred Storey, C.B.E., M.P.S.N.I. (president of the Society for forty years), and Mr. Henry McQuitty, M.P.S.N.I. (secretary), in Belfast on January 29.

Proposing the toast of the Pharmaceutical Societies of Ireland and Northern Ireland and the Ulster Chemists' Association, MR. STOREY said he had close connections with all three bodies, and always had a great affection for them. He had been a member of the Council of the Irish Society for six years and had been "in at the birth" of the Northern Ireland Society. Circumstances had favoured him in that he had also been associated with the U.C.A. since its inception and he paid tribute to the work of its secretary, Miss A. E. Strachan.

Responding, MR. H. P. CORRIGAN (vice-president, Pharmaceutical Society of Ireland), said it was a pleasure to represent his Society at the function and to join in the tributes to Mr. Storey and Mr. McQuitty. Not only had Mr. Storey been honoured by pharmacy in the North and South but he had also been honoured and recognised for his work by the state. He was one of the few members of the Pharmaceutical Society of Ireland who, on the formation of the Northern Ireland Society in 1926, had continued to take an active part in the mother society.

MR. G. E. MCILHAGGER (president, Pharmaceutical Society of Northern Ireland) said they met to honour a famous man who had given a lifetime of service to his country. Mr. Storey was first mentioned in the Irish Society's Register in 1896 and had since served in every sphere of public pharmaceutical life. In 1903 he assisted in the first recorded x-ray at the Royal Victoria Hospital. Through the years, in war and peace, Mr. Storey had been a leader in every national and civic effort. The history of the Northern Ireland Society was bound up with him. He was a

member of the advisory committee which resulted in the passing of the 1925 Act and the setting up of the Northern Ireland Society. Within a few years he was president of the Society and in 1935 was again president of the Society and also chairman of the successful British Pharmaceutical Conference held in Belfast that year. The surplus from the Conference local funds was used to found the Chemists' Benevolent Fund with Fred Storey as its first chairman. He had been an active committee member ever since. Pharmacy was honoured when he was awarded the C.B.E. ten years ago. In his long life of service no one had done more to cement the friendship between chemists in all parts of Ireland.

MR. MCILHAGGER said that as secretary of the Chemists' and Druggists' Society, Mr. Harry McQuitty was the "backroom boy." Behind the president, he had been a stalwart secretary for many years and together their work had forwarded the best interest of the profession.

MR. A. Templeton (president, Ulster Chemists' Association) also responded to the toast.

MR. STOREY was presented with a television set and Mr. McQuitty with a grandmother clock. Mrs. Storey and Mrs. McQuitty were also presented with gifts. The presentations were made by Mrs. J. Irwin and Mrs. C. Abernethy.

The toast of "our guests of honour" was proposed by Mr. M. Costello (treasurer, Pharmaceutical Society of Ireland) who said that Fred Storey had not only been a prominent figure in Irish pharmacy but a national figure. The toast was replied to by Mr. Storey and Mr. McQuitty.

MR. H. F. MOORE, M.P.S.N.I., proposed the health of the Northern Ireland General Health Services Board and Mr. W. McKinney (chairman, Northern Ireland Hospitals Authority) responded.

The health of the Chemists' and Druggists' Society was proposed by Mr. F. R. Moore. Mr. T. McDowell, M.P.S.N.I. and Mr. J. A. Roberts, M.P.S.N.I. replied. Mr. McDowell presided at the dinner.

The report is obtainable from H.M. Stationery Office, price £1.

SPECIFICATIONS FOR PREPARED DRUGS

Report of a Study Group of the World Health Organisation

THE ever more pressing problem of keeping up to date with pharmaceutical preparations was discussed at an international level in 1956 by a Study Group of the World Health Organisation. The Group included in its members Dr. Harold Davis (chief pharmacist, Ministry of Health). Its report is now generally available as a printed booklet (H.M. Stationery Office, price 1s. 9d.).

As one way of helping countries to keep abreast of current developments in the supervision they must exercise over pharmaceutical preparations manufactured or introduced within their boundaries, the group discussed a suggestion to have a service within W.H.O. that would obtain, examine, collate and distribute reference data concerning new pharmaceutical preparations. Those sheets would set out the composition of a new preparation, its active ingredients, contents, field of indications and dosage, clinical and toxicological findings, analytical data, and references to published literature on the subject. They could also include other data, constants and assay methods for the pure substance as well as for the pharmaceutical preparations manufactured from the substance. Data concerning side-effects of pharmaceutical preparations would be included when possible, though the Group recognised that it would not be possible in advance of distribution, to gain a complete knowledge of possible side-effects of new preparations. Distribution of the sheets would be to member states, to members of the Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations and to other specialists and control laboratories.

Future Action

Possible future action by W.H.O. on those lines would, it was thought, be valuable in view of the number (estimated at a few hundred) of medicinal substances introduced every year. So large a number of new substances presented hazards to public health, especially as the time that might elapse between the production of a new substance and its use in therapeutics might be relatively short. Twenty years ago that interval might have been as much as five to ten years; today it could be as little as six months. Keen competition forced manufacturers to produce new pharmaceutical specialities at frequent intervals, and for the protection of the users it was necessary to make arrangements to obtain as quickly as possible a sufficient knowledge of the toxicity, pharmacological and clinical actions, and side-effects of those preparations. The Group recognised that ordinarily a manufacturer could not supply complete data without placing himself in an unfavourable position in relation to his competitors.

After a review of the general principles governing the examination of pharmaceutical preparations in the countries represented in the Study

Group (Sweden, the United Kingdom, France, Egypt, Japan, Switzerland, the United States of America, Canada, and India) it was noted that there were many similarities as well as significant differences in the methods employed. Biological products such as sera, vaccines, antitoxins and certain antibiotics were generally manufactured and sold under licence. Excellent methods of examination were in operation by many pharmaceutical manufacturing companies. Most countries exerted some control over pharmaceutical preparations manufactured or introduced within their boundaries. Some countries required all pharmaceutical specialities to be registered before sale, as well as demanding that they should conform to labelled claims as to composition and should not be falsely advertised. "It would be useful from the standpoint of public health if Government control agencies could be informed of all pharmaceutical specialities sold." In a number of countries such information was not available. Most of the systems of examination might be essentially sound, but the means available for putting them into effect were often insufficient in view of the rapidly growing complexity of the task.

Authentic Chemicals Centre

It was noted that a centre for authentic chemical substances was being opened in Stockholm, following a recommendation of the Expert Committee on Biological Standardisation. Initially the centre was keeping as standards vitamin-A acetate, digitoxin, ergometrine maleate, oestrone, progesterone, tubocurarine, melarsen. Some of those substances had been received from the Medical Research Council, London, which had kept and distributed them in the past as international biological standards and reference preparations.

The report stressed the difficulties involved in interpreting pharmaceutical regulations of a given country and translating specific terms into another language. "Drug" and "pharmaceutical preparation" were often used synonymously and it was necessary to give definitions broad enough to include the different types of pharmaceutical preparation and pharmaceutical speciality. The definition of a pharmaceutical preparation which named a drug as a substance in an official list was weak, in that it enabled a manufacturer to circumvent government control.

A most important responsibility of officials who dealt with the control of pharmaceutical specialities was that of ensuring that substances were safe for use. Regulations for the introduction of a pharmaceutical preparation differed from country to country, and no country required all the items in a list which the group thought might be useful to authorities responsible for public health and welfare. There was a need for a meeting to consider how legislation could be simplified.

The Group thought that every label should bear the name of the speciality, its composition, the batch number and the name and address of the manufacturer. For certain products the route of administration should be given. Dosage, physiological incompatibilities, conditions of sale on prescription or otherwise, and storage conditions might also be given. The report stresses the danger of pharmaceutical preparations to children. It notes that the date of manufacture may be misleading, as a stable substance of a certain age may still be perfectly suitable for use, though for certain drugs the expiry date should be given. To facilitate international trade, agreement should be reached on information to be included on the label. Study of the principles for classification of pharmaceutical preparations to be dispensed on prescriptions or otherwise had been made necessary by the appearance of the antibiotics, antihistamines, cortisone and derivatives, amphetamines and other stimulants. A certain international uniformity in "prescription only" preparations was advisable.

Evaluation of new pharmaceutical preparations was difficult, as early reports were generally favourable and it might take some time before side-effects were noticed. It was advisable that imported specialities should be subject to the same specification as those manufactured within the country. An objective attitude should, however, be taken, and medicaments which had been examined by satisfactory methods in another country might be admitted without formalities.

Control Authority

The report concludes with an outline of the organisation of a national control authority. Administration, inspection, collection and scientific services are dealt with and there are sections on equipment of pharmaceutical control laboratories of varying size and the personnel required to man them.

"The chief of the service in the chemistry and physical chemistry department," the report states, "should be thoroughly grounded in inorganic and organic chemistry. As a chemist or pharmacist, he should be acquainted with the many fields of analytical chemistry and should also have adequate knowledge of current physico-chemical methods such as polarimetry, potentiometry and spectrophotometry. He must be a specialist in pharmaceutical chemistry and his knowledge should be completed by a good understanding of pharmacology and physiology."

"One of the most important functions of the authorities dealing with the examination of pharmaceutical preparations," it is concluded, "is to arrange for the inspection of pharmaceutical manufacturing plants with a view to ensuring that they have proper systems of control over their preparations, beginning with the raw materials, through the production stage and into the final pharmaceutical form."

LEGAL REPORTS

Addict Sentenced

BEFORE Cheshire Quarter Sessions Appeal Committee, on January 30, Albert Peate appeared for sentence after being found guilty of obtaining food and drugs by false pretences (*C. & D.*, February 1, p. 112). He was sentenced to three years' imprisonment.

Theft of Photo Goods

STUART MacLaren, Heywood, Lancs, was, on January 26, sent for trial by Heywood magistrates to the Salford Hundred Sessions at Bolton on February 18, on two charges of breaking in and stealing £105 worth of goods, including four cameras, an exposure meter, etc., from Coyle & Bullen, Ltd., chemists, York Street, Heywood, and a micrometer from an engineer's nearby. A plate-glass window at the chemist's shop was found to have been broken. All the property stolen from it was stated to have been recovered.

Alleged Infringement of Patent

LEGAL proceedings have been commenced in the district court of Iowa, U.S.A., by Bengel Laboratories, Ltd., Holmes Chapel, Ches, against Fort Dodge Laboratories, Inc. Messrs. Bengel seek an injunction to prevent the American company from infringing their U.S. Patent No. 2,820,740 (Therapeutic Preparation of Iron), issued on January 21. They claim general damages, costs and "such further and other relief as may seem proper to the Court." The Bengel patent covers iron-dextran complex marketed in most countries of the world under the name Imferon. In the United States Imferon is manufactured under licence by Lakeside Laboratories, Inc., Milwaukee, Wisconsin, while the veterinary form is similarly licensed to the Armour Laboratories, Inc., Kankakee, Illinois, by whom it is marketed under the name Armidexan.

IN PARLIAMENT

PURCHASE tax anomalies on shaving and nail brushes were among the points raised by Mr. G. D. N. NABARRO on January 28. He asked the Chancellor of the Exchequer for what reasons it had been decided that brushes used for cleaning shoes or teeth should be free of purchase tax, but that brushes used for applying shaving soap or brushing the hair, clothes or nails were liable to purchase tax at substantial rates; and if he would give an assurance that that anomaly would be dealt with at an early date by abolishing the tax on all types of brushes.

MR. HEATHCOAT AMORY (Chancellor of the Exchequer) said that shaving, hair, clothes and nail brushes were taxable as toilet requisites. Tooth-brushes were similarly taxable until 1951 when they were specifically exempted. Shoe brushes were also exempt. The review of alleged purchase tax anomalies was proceeding, but he could not give the assurance asked.

Poliomyelitis

MR. DEREK WALKER-SMITH (Minister of Health) in a written answer on February 1, told SIR F. MEDLICOTT that in view of the absence of any real evi-

dence of risk he hoped there would not be anxiety in seaside resorts as to the effect on health — with particular reference to poliomyelitis — of the discharge of sewage into the sea. By the nature of the investigations being undertaken by the Public Health Laboratory Service it was impracticable to expedite them.

MR. R. THOMPSON (Parliamentary Secretary, Ministry of Health) in a written answer on February 3, told MR. S. P. VIANI that damage to health following an injection of Salk or British antipoliomyelitis vaccine was unlikely. Medical officers of health kept records of those injections.

Smoking and Lung Cancer

LIEUTENANT-COLONEL M. LIPTON in the Commons on February 3, questioned DR. C. HILL about Government publicity services and the relationship between cigarette smoking and cancer of the lung. He asked: "In view of the complete failure of Government activities in letting the public know the real facts by passing the whole subject over to the local authorities, will you not reconsider the matter, especially in the light of the further evidence now provided by the British Medical Association?" DR. HILL said that there had been statements in the House about it, as well as activity by local authorities. The facts on this subject were widely known. It remained for individuals to reach their own decision.

MR. E. C. H. LEATHER asked if it were not so that the facts were still very much in dispute. There were very strong grounds for thinking the Medical Research Council had stuck its neck out much too far. DR. HILL said that the case has been fully established.

COMPANY NEWS

Last year's figures in parentheses

BORAX CONSOLIDATED, LTD.—Mr. N. J. Travis joined the board on February 1.

BRITISH VISQUEEN, LTD.—Mr. A. R. Thom has been appointed managing director of the company in succession to Mr. N. J. Travis who has resigned.

DIXOR, LTD.—Dividend on Ordinary for 1957, is 12½ per cent. (same). Profit, £14,143 (£13,036). To depreciation, £521 (£575), taxation £8,097 (£7,614).

A. T. STRONG, LTD.—Stow-on-the-Wold, Cheltenham, announce that they do not contemplate any change in the directorate or management of the company following the death of Mr. A. T. Strong, F.P.S., and that the firm will continue under the direct management of Mr. G. M. Muckart, M.P.S.

MIDLAND SILICONES, LTD.—Mr. K. A. M. Barton (sales director) and Dr. R. A. Gregory (production director) have been appointed joint managing directors. Mr. S. Barratt (former managing director) continues to serve on the board as a non-executive director. Mr. Barratt was recently appointed chairman of Albright & Wilson, Ltd., parent company of Midland Silicones, Ltd. (*C. & D.*, December 21, 1957, p. 663).

FARBWERKE HOECHST, A.G., Germany.—Total turnover rose by about DM280 millions or almost 19 per cent. to DM1,760 millions in 1957. Exports accounted for 32.3 per cent. of the turnover, compared with 30.2 per cent. in 1956. The company invested DM225 millions in its plants and production installation in West Germany, and DM26,500,000 abroad. The subsidiary in Brazil started producing and the small dye plant in the United States was expanded. A petrochemical factory was planned to set up, together with Austrian firms, near Vienna. The company has decided to float a DM100 millions loan in 1958. The first issue of DM50 millions is expected to be placed on the market in the first quarter of the year.

ARTHUR BERTON, LTD.—A preliminary statement for the year ended December 28, 1957, shows the share of Lilia-White Associated Companies' profit as £224,912, after expenses (against £213,106). After tax of £121,495 (£116,500), the net profit is £103,417 (£96,606). No final dividend is recommended in view of the offer (*C. & D.*, January 18, p. 60), from Smith & Nephew Associated Companies. But for that offer, state the directors, they would have recommended a 6 per cent. final, to make 22 per cent. Shareholders accepting the offer will be entitled to the Smith & Nephew's 1957 dividend, which, based on the 1956 payment of 12½ per cent., is equivalent to a dividend of 21¼ per cent. on Arthur Berton Ordinary.

BUSINESS CHANGES

MR. J. NOEL DYSON, M.P.S., Horwich, Lancs, has acquired the pharmacy at 3 Station Road, Hest Bank, Lancaster, from Mr. Cyril Nicholl, M.P.S.

WHIFFEN & SONS, LTD., are to concentrate the company's fine chemical production at their Loughborough works, as part of a rationalisation programme. It is expected that the transfer from Fulham will be completed by the end of June.

Appointments

CARLTON LABORATORIES (SOUTHERN), LTD., 2 Norfolk Square, Brighton, have appointed Mr. R. M. Nicholson their medical representative for Sussex and part London area.

BENGER LABORATORIES, LTD., Loughborough, Leics, have appointed

Mr. D. P. Hickey (Northern regional manager in the U.K.) to the position of acting promotion manager for Western Europe. He takes up his appointment immediately.

P F I Z E R, LTD., Folkestone, Kent, have appointed Mr. F. L. Turner, B.Sc., A.R.I.C., to the new post of training and education officer.



Mr. D. P. Hickey

DEATHS

ALEXANDER.—On January 20, Mr. William Alexander, 65 Gray Street, Aberdeen, aged seventy-nine. Mr. Alexander qualified as a chemist and druggist in 1902.

BENNETTO.—On January 18, Mr. Barnabas Bryce Bennetto, M.P.S., 1 Broad Street, Padstow, Cornwall, aged sixty-one.

BRISTOW.—At High Wycombe War Memorial hospital, on January 26, Mr. Gilbert Harold Bristow (managing director, G. H. Bristow (Chemists), Ltd.), 214 Desborough Road, High Wycombe, Bucks. Mr. Bristow was a vice-president of High Wycombe camera club and an active member of Trinity Congregational Church. He leaves a widow, son (Mr. Ian Douglas Bristow, M.P.S.) and twin daughters.

BUSBY.—At the Thompson Memorial Home on January 25, Mr. George Bcll Busby, late of 155 University Street, Belfast. Mr. Busby qualified as a pharmaceutical chemist in 1926.

BUSBY.—At hospital, on January 27, Mr. William John Busby, M.P.S.N.I., 4 Morningside, Bangor. Mr. Busby was brother of Mr. G. B. Busby whose death is recorded above. They died within forty-eight hours of each other. Like his brother he qualified in 1926. Mr. W. J. Busby was manager of William Dobbin & Co., Ltd., for many years and later went to Canada. On his return he opened his own pharmacy at Duncairn Gardens, from which he retired several years ago.

EVANS.—On January 22, Mr. William Jones Evans, M.P.S., Jasmine Cottage, Mancot, Chester, aged seventy-four.

GILLETT.—At the Royal South Hants Hospital, recently, Mr. Horace G. Gillett, aged sixty-five. In 1932 Mr. Gillett joined what was then known as Lambert Pharmacal Co. as manager and, at the merger with William R. Warner & Co., Ltd., in 1955, he joined the Warner board as director of export operations. Mr. Gillett, who was known throughout the pharmaceutical industry in Britain by the affectionate nickname of "G.", was married but had no family. He was severely gassed while serving in the first world war and for the remainder of his life he was never free from the disability caused by that injury. Though a sick man, Mr. Gillett was at work at the company's new head office building in Eastleigh, Hants, until a few hours before his death.

GREEN.—Recently, Mr. Kenneth Green, M.P.S., 28 Fairway Crescent, Allestree, Derby, aged forty-nine.

GRUNDY.—Recently, Mr. Arthur Grundy, M.P.S., 239 Birches Head Road, Hanley, Staffs, aged fifty-one. After qualifying from Manchester University Mr. Grundy moved to the Potteries, subsequently starting his own business at Sneyd Green in 1938. He leaves a widow, son and two daughters.

HORLICK.—At Warborough, Oxford, on January 29, Sir Peter James Cunliffe Horlick, aged forty-nine. Sir Peter was a grandson of the founder of

Horlicks, Ltd., and was a director of that company and chairman of its Australian branch before retiring because of ill health.

MORRIS.—On January 29, Mr. Frederic Oscar Morris, Stowford Grange, Lewdown, Devon, aged sixty-nine. Mr. Morris was chairman and managing director of Ambrosia, Ltd.

MOSS.—On January 30, Mr. Stanley Browning Moss, M.P.S., The Avenue, Wimborne, Dorset. Mr. Moss qualified in 1904.

MOSS.—At the Royal Victoria Hospital, Belfast, Northern Ireland, on February 1, as a result of injuries received in a fire in the dispensary of his pharmacy at 7 Ormeau Road, Belfast, on the day previously, Mr. Charles Edward Moss, M.P.S.N.I. Mr. Moss (a member of Council of the Pharmaceutical Society of Northern Ireland since his co-optation in 1955) was the Society's vice-president, having been elected to the office in October 1957. He gained his qualification in Northern Ireland in 1937. A native of Fintona, Mr. Moss served his apprenticeship with Mr. H. J. Deeny, Divis Street, Belfast. He is survived by his widow and five children. His funeral to Milltown Cemetery took place from St. John's Roman Catholic Church, Belfast, following Requiem Mass. Among the many friends assembled there were Messrs. G. E. McIlhagger, W. Gorman (president and secretary respectively, Pharmaceutical Society of Northern Ireland) and members of Council. The Ulster Chemists' Association was represented by Messrs. A. Templeton (president), J. A. Brown (vice-president), the secretary and members of the executive committee, the Londonderry and Strabane Chemists' Association by Mr. W. Donaldson, and the Associates' Section of the Ulster Chemists' Association by Mr. W. T. Hunter (chairman). Major F. McMullan and Mr. F. R. Moore attended on behalf of Thomas McMullan & Co., Ltd. Mr. J. N. Patterson, pharmacy inspector, was present, and Mr. A. W. Kernahan represented the Northern Ireland General Health Services Board.

PERRINS.—On January 29, Mr. C. W. Dyson Perrins, aged ninety-three. Mr. Perrins' father was a member of the former firm of chemists, Lea & Perrins, who began the manufacture of the famous Worcester sauce. (A history of the company was given in *THE CHEMIST AND DRUGGIST*, June 27, 1936, p. 741.)

PRYCE.—Recently, Mr. Edward Calcot Pryce, M.P.S., Green Dragon Lane, Winchmore Hill, aged sixty-eight. Mr. Pryce was for many years in business in Tottenham High Road and for the past ten years had been in partnership with Mr. Alexander Macphee, M.P.S., who will carry it on without changing the name. Mr. Pryce was a keen golfer, and founded the Spiders golfing society, of which he was president. He was also a prominent Freemason.

RITSON.—On January 24, Mr. Fletcher Ritson, M.P.S., 22 Argyle Street, Birkenhead, aged sixty-four. The son of a chemist with whom he served

his apprenticeship, Mr. Ritson studied at the London School of Pharmacy and was subsequently in practice in Kensington, London. He went to Birkenhead in 1928. He was president of the Birkenhead Rotary Club in 1953.

SPARGO.—At 17 Bills Lane, Shirley, Solihull, Warwick, on January 25, Mr. Robert Spargo, Mr. Spargo, who had retired, was thirty-four years with the United Chemists Association, Ltd., Cheltenham. He was primarily a sales representative becoming senior representative and in later years was responsible for the company's publicity department at the Cheltenham factory.

Mr. J. Lovell Goulder (managing director, U.C.A.L., Ltd.) writes: His many friends in the trade will deeply regret to learn of the passing of Mr. Spargo, who throughout his business life has been associated with the firm of U.C.A.L. Known throughout Great Britain, his cheerfulness, joviality and good humour endeared him to all. His colleagues at U.C.A.L. and many proprietors throughout the country will indeed have lost an old friend.

PERSONALITIES

MISS JUNE E. DEARING, 52 Eastwood Road, South Woodford, Essex, the



third young pharmacist who has been selected to visit Jugo-Slavia for one month to gain experience of pharmacy there (see *C. & D.*, January 25, p. 88, and February 1, p. 114), is the sole retail member of the party. During

her student days at Brighton Technical College, Miss Dearing found time to attend the 1955 conference of the International Pharmaceutical Students' Federation, Vienna, Austria. She did her post-graduate training with Corfe & Son, Ltd., Maidstone, Kent, and is at present engaged on relief duties with L. Matthews & Son (Chemists), Ltd., Leytonstone, London, E.11.

MR. A. R. THOM, whose appointment as managing director of British

Visqueen, Ltd. (a subsidiary of Imperial Chemical Industries, Ltd.), is announced (see p. 146), joined I.C.I. in 1946, and was associated with the development of polythene film in its early days. He has held previous appointments in I.C.I.'s southern



region sales office in London and with the company's plastics division. Mr. Thom comes to his new position from the I.C.I. northern region sales office in Manchester.

MANUFACTURERS' ACTIVITIES

At South Pole.—A live "commercial" on all ITV stations on January 19 emphasised the fact that Ovaltine (A. Wander, Ltd., Grosvenor Square, London, W.1), was the only food beverage carried by the British Commonwealth trans-Antarctic expedition.



£350 FOR AN IDEA: The suggestions award scheme of Glaxo Laboratories, Ltd., Greenford, Middlesex, has paid out its highest individual award to date—£350—to Mr. D. G. Ryder, a process worker at the company's antibiotics plant at Ulverston, Lancs. The suggestion, concerning a method of electronic control of foaming during antibiotic fermentation, has led to a considerable saving in production costs. Mr. Ryder has been with the company for ten years. During his previous service with the Royal Navy he worked on radar and electronics. An earlier success in the scheme gained him an award of £35. Mr. Ryder (right) is shown receiving his cheque from Mr. W. B. Emery (Ulverston factory manager).

Plastic Tubes on Show.—Casceloid Division of the British Xylonite Co., Ltd., 9 Conduit Street, London, W.1, staged an exhibition of their "squeeze-to-use" plastic tubes and containers, in their showrooms, January 27-31. Also shown for comparison were similar containers manufactured by associates in many parts of the world. The adoption of those containers for the packaging of pharmaceuticals, liquid detergents, baby powders, adhesives, and for

use even as a disposable enema unit, showed the remarkable progress that has been made since the introduction of containers of the plastic-tube type.

Presentation Luncheon.—More than 250 people attended a presentation luncheon at the Whitehaven, Cumberland, plant of Marchon Products, Ltd., on January 25 to bid farewell to Mr. Frederick Marzillier (until recently vice-chairman of the company and its subsidiary, Solway Chemicals, Ltd.). Mr. Marzillier recently left Cumber-



PARTING GIFT: Mr. Frank Schon (right), the chairman of Marchon Products, Ltd., and Solway Chemicals, Ltd., Whitehaven, Cumberland, shows 250 guests the silver cigarette box presented to Mr. Frederick Marzillier (left), his friend and business colleague, at a recent luncheon to mark Mr. Marzillier's departure from Cumberland to live in semi-retirement in the South of England. The cigarette box was designed in the shape of a Marchon fire-fighter—one of the first products which the two friends marketed when they started in business in England in 1939. Mr. Marzillier retains his seats on the boards of both companies in an advisory capacity.

land to live in semi-retirement in the South of England. Guests included 200 employees of the two companies as well as leading figures in the public and industrial life of North-west Cumberland. Among those present were Lord Adams (secretary of the Cumberland Development Council); Mr. A. Creech Jones, P.C., M.P. (a director of Marchon Products, Ltd.), and the mayor of Whitehaven, Mr. Thompson Reed. Mr. Frank Schon (chairman of the companies) chose Mrs. H. B. McAleese, first woman to work for Marchon Products, and still with the company, to present Mr. Marzillier with a silver cigarette box. A further presentation of a portrait or bust is to be made to Mr. Marzillier, and the commissioning of one of those is now under consideration. Mr. Marzillier is to retain his seats on the boards of both companies in an advisory capacity.



A DECADE OF SERVICE: Mr. S. T. Tucker, after ten years with Ortho Pharmaceutical, Ltd., High Wycombe, Bucks, receives a "Service pin" from Mr. Reginald George (managing director). Mr. S. T. Tucker is the company's metropolitan-area manager.

HORTICULTURAL NOTES

For Moisture Retention.—The use of a dilute solution of glycerin as a soil additive for moisture retention has been patented in Australia. The dilute solution is carried down by rain to form a moisture-holding zone the depth and width of which depend on the amount of glycerin used and the physical nature of the soil.

Ten-day Fertiliser.—Sangral ten-day fertiliser is issued in two forms: granular (in packets and cartons of seven sizes); and liquid ("general," "tomato special" and "chrysanthemum special," each in bottles of two sizes). Liquid Sangral is available in mixed cases of twelve and twenty-four bottles. The manufacturers are Lasco, Ltd., Car-ruthers Street, Liverpool, 3.

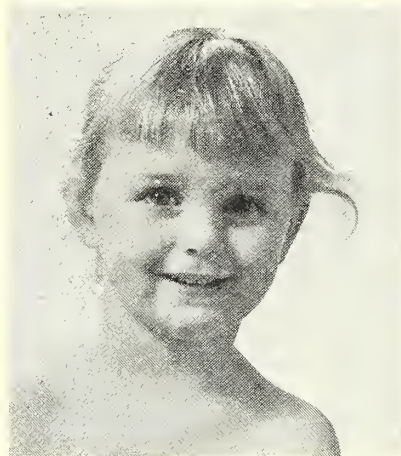
A New Insecticide.—A new organo-phosphorus compound, Phosdrin, a product of the Shell Chemical Co., Ltd., 15 Great Marlborough Street, London, W.1, may be used on crops to within three days of harvest. Intended principally to protect tree fruits, Phosdrin may be sprayed on strawberry beds and crops of vegetables in the knowledge that three days after application it has become harmless.

Fungicidal Generator.—For horticulturalists with medium-sized green-houses, the Fumite division of Wacco, Ltd., High Post, Salisbury, Wilts, have introduced a new intermediate size of Fumite TCNB fungicidal generator.

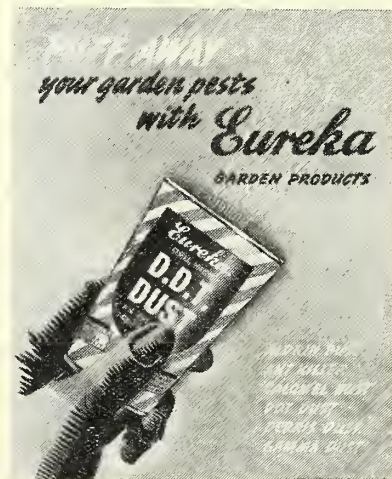
Listed as size 3, it treats the following spaces:—

	cu. ft.
No. 1 dosage (serious infection)	1,500
No. 2 dosage (normal infection)	2,250
No. 3 dosage (prevention)	3,000

"Puffer-pack" Dusts.—Tomlinson & Hayward, Ltd., 51 Newland, Lincoln, have produced a new "3-D" display card which is being supplied free with



MISS PEARS 1958: Awarded first prize in a "Miss Pears 1958" competition organised by A. & F. Pears, Ltd., Hesketh House, Portman Square, London, W.1, three-year-old Susan Cadge, Gay Elms Road, Bristol, wins a cheque for £500. Chosen from an entry of about 10,000, she was held by the judges to be the girl who most reflected the freshness and charm inherent in the slogan "Preparing to be a Beautiful Lady."



every order for Eureka puffer-pack dusts. It is printed in four colours, and fitted with a locking strut.

TRADE NOTES

Now in Tax-free Pack.—Merck Sharp & Dohme, Ltd., Hoddesdon, Herts., announce that their speciality Hydrodyne, in bottle of 100 tablets, is now being issued as a tax-free dispensing pack.

Now in a Flat Pack.—Digestoids, a C.F. line, are now issued by the manufacturers, Meggeson & Co., Ltd., London, S.E.10, in a flat carton (more convenient for pocket or handbag).

Additional Packs.—The Distillers Co. (Biochemicals), Ltd., Broadway House, The Broadway, Wimbledon, London, S.W.19, announce that a foil pack of twelve and a bottle of fifty 125-mgm. tablets of Distaquaine V-K brand potassium penicillin-V tablets are now available.

Change of Strengths.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce that, to conform with the recommendations of the forthcoming British Pharmacopoeia, Calcpin-V tablets are now available in 60-mgm., 125-mgm. and 250-mgm. strengths.

An "Economy Size."—Genatosan, Ltd., Loughborough, Leics, are market-



ing from February 10 an "economy" size of Sanatogen, as illustrated. The size is intermediate between the standard and family sizes. By February 10, when it becomes available to the public, retail chemists should have received a card giving price details.

Bonus Offers

MOORE MEDICINAL PRODUCTS, LTD., Aberdeen. Strix asthma tablets, trial pack. Twelve invoiced as ten.

CHESEBROUGH-POND'S, LTD., Victoria Road, London, N.W.10. Vaseline hand cream. 3 doz. or more at 9s. 8d. per doz.

W. & F. WALKER, LTD., Kirkby, Liverpool. Rotofresh. 5 per cent. extra on order value £3; 7½ per cent. extra on £5 order.

VITAMINS, LTD., Upper Mall, London, W.6. Bemax. Thirteen to doz. On minimum of 6 doz. small size or equivalent.

GEIGY PHARMACEUTICAL CO., LTD., Roundthorn Estate, Wythenshawe, Manchester, 23. Desogen antiseptic lozenges. Fifteen packs charged as twelve. Until February 28.

SCOTT & TURNER, LTD., Andrews House, Newcastle-on-Tyne, 1. Perminex insecticide. 5 per cent. on orders for Perminex BHC or Perminex DDT delivered by May 30. Minimum carriage-paid order: a total of 2 doz. of either kind.

NEW PRODUCTS AND PACKS

Trial Pack.—Moore Medicinal Products, Ltd., Aberdeen, are currently offering a trial pack of Strix asthma tablets. The pack is an aluminium tube containing ten tablets, issued in a display outer of 1 doz.

Aspirin for Children.—Kaputine, Ltd., Boardman Street, Oldham, Lancs. are launching a new children's aspirin. Topsy, each tablet containing gr. 1.25 of acetylsalicylic acid, flavoured and sweetened. The pack is a bottle of twenty-five.

Threadworm and Roundworm Eradicators.—Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts, are marketing a new anthelmintic elixir, Rhomex, claimed safe against threadworm and roundworm. The packs are a 4½-oz. polythene bottle in display outer of twelve and a 2-litre polythene dispensing pack. A companion product, Rhomex tablets, is issued in bottles of twenty-five, fifty and 100.

Improved Lamb-dysentery Vaccine.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, announce the availability of a new, improved lamb-dysentery vaccine capable of stimulating in ewes a high level of active immunity against *Cl. welchii*, types B and D, from a dose of 2 c.c. The absence of bacterial bodies in the vaccine ensures safety, guarantees potency and reduces the risk of local reaction at the site of injection.

Daytime Sedative.—H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2, are launching a campaign to the medical profession to make known their new medicinal speciality, Carmerin daytime sedative, indicated in anxiety states, neuroses, nervous dyspepsia, insomnia and hypertension. Each standardised tablet of the product contains 200 mgm. of acetylcarbromal, 150 mgm. of mephensin and 0.05 mgm. of reserpine alkaloid. The packs are bottles of fifty and 300 tablets.

Chelated Iron Syrup.—Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have produced a new medicinal speciality, Sytron—a palatable cherry-flavoured syrup for treating all forms of iron-deficiency anaemia in children and adults. The syrup contains in each 8 mls (two teaspoonfuls) 380 mgm. of sodium ironedetate (the iron chelate of the monosodium salt of ethylenediamine tetra-acetic acid), equivalent to 55 mgm. of iron. The product has no astringent taste, does not stain the teeth, and in the recommended dosage seldom causes gastrointestinal irritation. Sytron is presented in bottles of 4, 16 and 80 fl. oz.

Quick-acting Analeptic.—Savory & Moore, Ltd., 60 Welbeck Street, London, W.1, are the sole distributors in Great Britain of a new medicinal speciality manufactured by Carnegies of Welwyn, Ltd.: Vandid (vanillic acid diethylamide). Vandid has a stimulant action on the respiratory system, and is indicated in cases of poisoning by barbiturates, coal gas, alcohol, narcotics, etc.; for circulatory support during infectious diseases; or for cardiorespiratory stimulation in cases of neonatal asphyxia or cyanosis. The packs are a tube of twenty 20-mgm. tablets; a drop-

ping bottle containing 15 mls of 5 per cent. oral solution; and a box of six ampoules each containing 5 mls of 5 per cent. solution.

Lavatory-bowl Deodorant.—In Rotofresh lavatory-bowl cleanser, deodorant and disinfectant, W. & F. Walker, Ltd., Kirkby, Liverpool, claim the advantage of a new type of rubber sucker attachment that obviates the disadvantages of earlier types and gives a firm attachment.

Restyled and Reformulated.—Evan Williams Co., Ltd., Aintree Road, Peri-



vale, Greenford, Middlesex, have restyled and reformulated their wave sets, the former blue now containing a hair conditioner, and the former amber pack Dyroxin brightener (changing its colour to "a green glow"). The pack is a display box containing six dozen of each.

"New" Dentifrice.—A reformulated Gibbs dentifrice in three flavours (peppermint, birchmint and improved "standard") is now being issued by the manufacturers, D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1. Each flavour is in a tin of distinctive colour (blue, green and red respectively) on which a hint of the former "ivory castles" motif is still



retained in the design. A display pack presents the three varieties to the purchaser's view. Chief advantage of the new formulation is that the flavour is uniform throughout the block and does not develop a soapy taste.

BRANCH EVENTS

GRIMSBY

Emancipation in Pharmacy

ONE in every ten pharmacists today is a woman, a position gained only by eighty-three years of struggle, said Miss P. HAYBALL (president, Grimsby Pharmacists' Association) at the Association's recent annual dinner and dance at Cleethorpes. Miss Hayball is the Association's first woman president. "I think the greatest tribute paid to our sex was in 1947 when Mrs. Jean Irving was elected the first woman president of the Pharmaceutical Society," she said.

PORTSMOUTH

£40 For Pharmaceutical Charities

PORTSMOUTH Branch of the Pharmaceutical Society held a very successful dance at Southsea on January 10 which was attended by about 130 members and their friends. Dancing was from 8 p.m. until 1 a.m. Mr. N. L. BANKS (Branch chairman) welcomed the guests to the function which was held in aid of pharmaceutical charities. Approximately £40 was raised as a result of the effort. Organised by the Branch social committee, Mr. J. C. Bloomfield (social secretary) was M.C.

PRESTON

Short Way Out

TOASTS and replies followed each other so swiftly at the annual dinner and dance of Preston and District Pharmaceutical Association and Preston Branch of the Pharmaceutical Society on January 30 that the mayor, COUNCILLOR C. HEARN, took his cue from the others. In a 45-second speech he used the word "chemist," because "pharmacist is such a long word in a short speech." MRS. P. M. BROADBENT (vice-president) who coupled the toast "The President and the Pharmaceutical Society" also presented a very delicate water-colour harbour scene by Gabriel Deschamps to Mrs. J. Nixon, wife of the president.



EDINBURGH BRANCH DINNER: Some of the members and guests at the top table on the occasion of the annual dinner of the Edinburgh Branch of the Pharmaceutical Society. The group includes Mr. and Mrs. E. Knott, Mr. and Mrs. J. B. Grosset, Dr. D. McCall, Mrs. T. Reid, Lord Wheatley (senator of the College of Justice); and Mr. C. G. Drummond (Branch chairman) and Mrs. Drummond.

Mr. J. NIXON (president) responded. "The Mayor and Corporation" was proposed by Mr. J. H. HAYHURST.

EDINBURGH

A Public Friend

LORD WHEATLEY (a Senator of the College of Justice in Scotland) proposed the toast of "The Pharmaceutical Society of Great Britain and the Edinburgh and South-eastern Scottish Branch" at the annual dinner of the Branch held in Edinburgh on January 29. The health of the nation, he said, was a great responsibility which rested in the hands of the twin professions of pharmacy and medicine. The pharmacist was more than shopkeeper; he rendered a great service to the nation and many people looked upon him as guide, philosopher and friend. In the exercise of his work he could bring a great deal of happiness into the lives of the people by the alleviation of pain. "We live in a country and in an era," said Lord Wheatley, "in which the skill and ser-

vices of the healer are available to all. Whether we agree or disagree with the methods by which this has been brought about, we must recognise the great benefit this has conferred upon our people. It is a boon, a blessing and a safeguard." He recalled what he thought was an event unique in British pharmacy, when Mr. Arthur Woodburn was Secretary of State for Scotland in 1948. As Lord Advocate for Scotland he had been present when Mr. Woodburn received a deputation at the House of Commons from the pharmacists. As a result of goodwill a compromise was reached whereupon Mr. Woodburn produced a typewriter and himself typed out the agreement which was signed by those present. He was sure it was the first time a Cabinet Minister had typed out an agreement on the spot. The toast was replied to by Mr. T. Reid (a member of the Society's Council), and Mr. C. G. Drummond (branch chairman) who presided. Other speakers were Mr. J. B. Dunnett and Dr. G. H. Macmorran.

DINERS AT BRISTOL: Guests at annual dinner of the Bristol Branch, Pharmaceutical Society of Great Britain, held recently at Bristol.

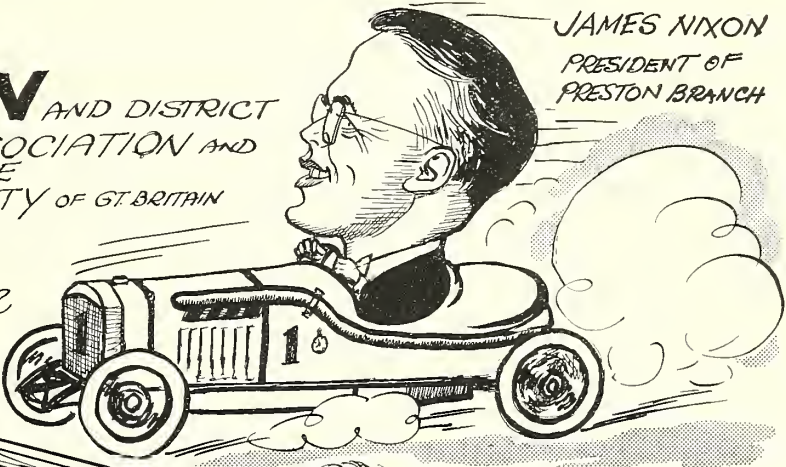


"C&D" artist at

PRESTON


AND DISTRICT
HARMACEUTICAL ASSOCIATION AND
RESTON BRANCH OF THE
HARMACEUTICAL SOCIETY OF G.T. BRITAIN
ANNUAL
Dinner & Dance
30th January 1958

JAMES NIXON
PRESIDENT OF
PRESTON BRANCH




Guest of Honour
COUNCILLOR C. HEARN
MAYOR OF PRESTON


"I SAY
CHEMIST
BECAUSE
PHARMACIST
IS SUCH
A LONG
WORD IN
A SHORT
SPEECH"



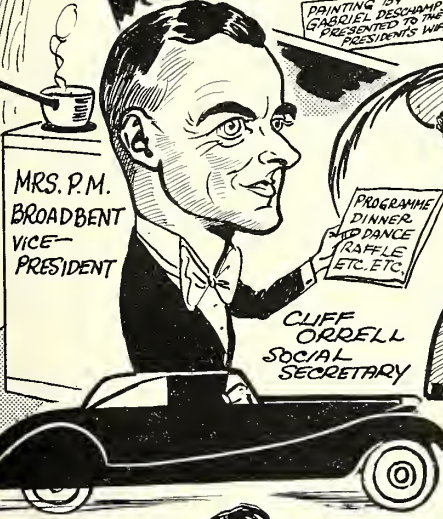
MRS. JAMES NIXON



PRINTING BY
GABRIEL DESCHAMPS
GRANDPARENTS TO THE
PRESIDENT'S WIFE




MRS. P.M. BROADBENT
VICE-PRESIDENT




PROGRAMME
DINNER
& DANCE
RAFFLE
ETC. ETC.

CLIFF ORDELL
SOCIAL SECRETARY



J. (ROBIN HOOD) HAYHURST
SENIOR MEMBER OF
COMMITTEE




F. SMITHSON
TREASURER

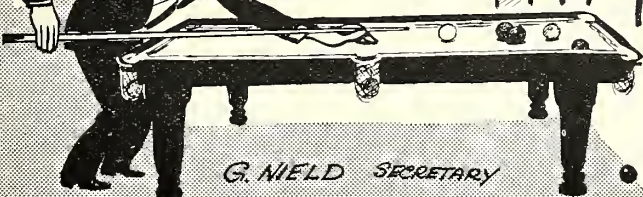
AS A "NATTER" OF FACT THIS
MAY BE OF INTEREST TO ALL SOCIAL SECS.
PRESTON'S AFTER-DINNER SPEECHES WERE ALL
OVER IN LESS
THAN 10 MINUTES!
(SUBJECT TO CONFIRMATION)


"THAT'S
A
SPEECH"

— THAT WAS!



G. NIELD SECRETARY





ORGANIC PREPARATIVE METHODS

Symposium by Chemical Society and Fine Chemicals Group

ORGANISED jointly by the Chemical Society and the Fine Chemicals Group of the Society of Chemical Industry, a two-session symposium entitled "Newer Preparative Methods in Organic Chemistry" took place in London in November 1957. Dr. B. A. Hems (chairman of the Fine Chemicals Group) presided at the afternoon session, at which three papers were presented. The first paper, by Dr. R. M. EVANS (Glaxo Laboratories, Ltd.) was entitled "Dehydrogenation with Manganese Dioxide."

Dehydrogenation

THE discovery that vitamin A in petroleum solution is converted into retinene on being shaken with a suspension of hydrated manganese dioxide evoked interest in the use of that compound for dehydrogenating polyene alcohols. It was subsequently shown that $\alpha\beta$ -unsaturated primary and secondary alcohols, dissolved in neutral inert organic media, are converted into the corresponding aldehydes or ketones on being shaken with a suspension of hydrated manganese dioxide at room temperature, no matter whether the unsaturation is in an olefinic, acetylenic, aromatic or alicyclic system. Under the same conditions Δ^5 -3-hydroxy steroids yield Δ^4 -6-3-ketocompounds, but tertiary alcohols and saturated alcohols are substantially unaffected.

The selective action of hydrated manganese dioxide, and its mild conditions of use, make it particularly suitable for dehydrogenated unstable polyen- and polyenynols and for selectively oxidising allylic hydroxyl groups of polyhydroxy compounds. At higher temperatures (80 to 120°) it is less selective, readily oxidising saturated alcohols, giving lower carbonyl compounds with α -ketols and vicinal glycols, and yielding aldehydes or ketones with α -hydroxy acids.

To ensure consistent activity hydrated manganese dioxide, not a well-defined compound, needs to be carefully prepared. It is conveniently made by oxidising manganese sulphate with potassium permanganate in aqueous solution. Precipitated under alkaline conditions the dioxide is more efficient for dehydrogenating $\alpha\beta$ -unsaturated alcohols, under acidic conditions more effective for preparing Δ^4 -6-3-ketosteroids. Light petroleum ether, chloroform, benzene and acetone are suitable solvents for reactions at room temperatures; at higher temperatures water or pyridine may be used. The mechanism of the reaction is obscure and further information is needed for understanding it.

Dr. H. B. HENBEST came next, with "Oxidation of Tertiary Amines."

TERTIARY amines are readily oxidised by a variety of reagents, the initial products usually being N-oxides, enamines or carbinolamines. Recent work has shown that mercuric acetate in dilute acetic acid is an efficient dehydrogenating agent for many cyclic tertiary amines. The enamines formed

are often best isolated as their crystalline perchlorates, which can serve as starting material for further syntheses such as the preparation of cyanamines. The side-chain alkyl groups in many mono- and dialkyl-anilines can be oxidised by manganese dioxide. The reactions, carried out by stirring a solution of the amine in chloroform with the dioxide, usually take the course of (a) amide formation, (b) dealkylation with formation of an aliphatic aldehyde, or (c) dehydrogenation followed by oxidative cleavage of the resultant enamine. Reaction path (a) is exemplified by the oxidation of dimethylaniline to N-methylformanilide. Oxidation of diethylaniline provides an example of conversion (b). If an alkyl group is flanked suitably by two amine groupings, conversion (c) becomes the main reaction. Good yields of secondary amines and carbonyl compounds are obtained only from the reactions of tertiary amines with N-bromosuccinimide if appropriate experimental conditions are used.

Organic Oxidations

THE third paper at the session was by Dr. R. SLACK (May & Baker, Ltd.) and was "Organic Oxidations with Hexavalent Chromium." Four main variants were considered: (a) CrO_3 in acetic acid; (b) CrO_3 in pyridine; (c) CrO_3 in acetone; and (d) *tert*-butyl chromate. The speaker made special reference to hydrocarbon oxidation in glacial acetic acid at temperatures below 40°. The three modern reagents (b), (c) and (d) have all been introduced into organic chemistry to increase the selectivity of hexavalent chromium. Their preparation and different methods of use were discussed with special reference (so far as (b) is concerned) to the function of pyridine in the base-catalysed decomposition of esters presumed to be intermediates in the oxidation of carbinols to ketones. *Tert*-butyl chromate, a red liquid readily soluble in chloroform, *tert*-butanol, etc., is reasonably stable and has a high degree of selectivity towards alcohols, which are oxidised to aldehydes. Amines can be oxidised to azo compounds or to aldehydes. The speaker emphasised the inherent danger of all preparations that involve the use of CrO_3 or its derivatives. At the end of the oxidation process excess ferrous sulphate or oxalic acid should be added to destroy excess hexavalent chromium.

PROFESSOR E. R. H. JONES, F.R.S., presided at the evening session during which three further papers were read and discussed. "Mixed Anhydrides as Synthetical Reagents" was the title of a paper by PROFESSOR G. W. KENNER. The purpose of the paper was to discuss the principles governing the use of mixed anhydrides as intermediates during the condensation of oxy-acids with nucleophilic reagents such as amines and alcohols. The speaker focused attention on mixed anhydrides of two oxy-acids which, in some circumstances, have advantages over the

other, more generally useful mixed anhydrides, such as acyl chlorides and azides. During the two stages of the condensation process the oxygen atom, which is shared in the mixed anhydride, is transferred from the first oxy-acid to the second, and therefore the whole process can be conducted in one series of laboratory operations without wasteful isolation of the mixed anhydride. The second partner in the mixed anhydride may be selected from a wide range of oxy-acids so as to give the correct reactivity to the mixed anhydride. Two well established procedures were cited, namely the preparation of alkyl benzyl phosphonates through the mixed anhydride of monobenzyl phosphonic and diphenyl phosphoric acids and the synthesis of peptides through mixed anhydrides of carboxylic acids.

It was emphasised that mixed anhydride procedures demand good experimental technique, particularly with respect to exclusion of moisture, control of temperature, and timing of the operations. Consequently they should be reserved for special cases in which acyl halides are unsatisfactory.

"Some Reactions between Metal Carbonyls and Acetylenic Compounds" was read by Dr. M. C. WHITING (Dyson Perrins Laboratory).

Metal Carbonyls

α -SUBSTITUTED acrylic acids may be obtained by dissolving the substituted acetylene in aqueous ethanolic acetic acid and nickel carbonyl. A vigorous reaction occurs and the temperature rises to about 80°. Excess nickel carbonyl is removed by distillation with ether. Divinyl ketones may be formed as by-products. The yield of the acrylic acid derivative is increased by incorporating nitrobenzene in the reaction mixture.

"Some Applications of Metal Carbonyls in Organic Chemistry" was read by Dr. P. O. LENEL (Imperial Chemical Industries, Ltd.).

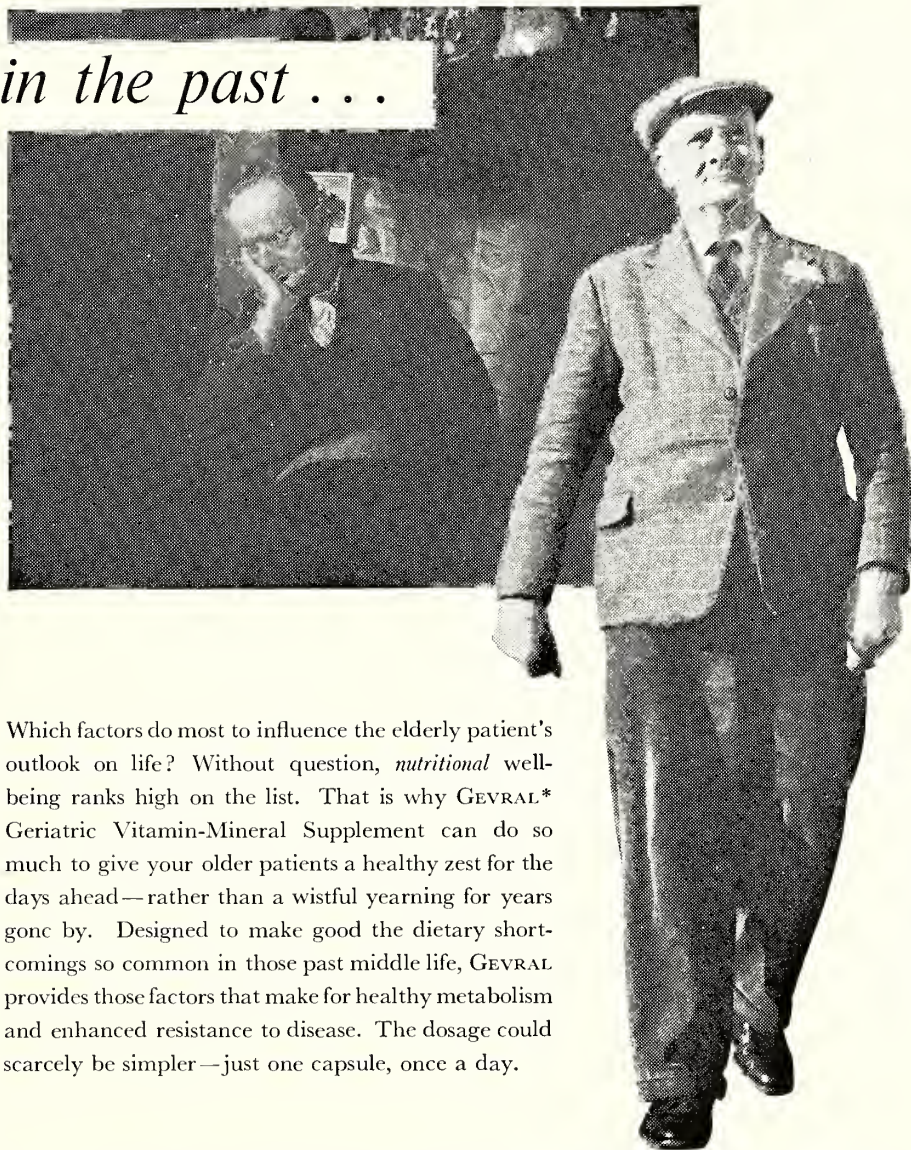
SUBSTITUTED nickel carbonyls are useful as catalysts in polymerisation and cyclisation reactions of unsaturated hydrocarbons. Cobalt carbonyl is the catalyst in the industrially important hydroformylation of olefines with carbon monoxide and hydrogen to give aldehydes and, after hydrogenation, alcohols. Cobalt carbonyl is also useful in a number of other carbonylation-type reactions, and the related cobalt hydrocarbonyl can catalyse homogenous liquid phase hydrogenations.

Iron carbonyl can be used in an alcohol synthesis from olefine, carbon monoxide and water.

Manganese carbonyl has recently entered the field of potential catalysts by the discovery of methyl and acetyl derivatives mutually interconvertible; this represents a synthesis of acetic acid from methanol.

Professor Jones closed the meeting by expressing thanks to the speakers, the organisers and the University College authorities.

living in the past . . .



Which factors do most to influence the elderly patient's outlook on life? Without question, *nutritional* well-being ranks high on the list. That is why GEVRAL* Geriatric Vitamin-Mineral Supplement can do so much to give your older patients a healthy zest for the days ahead—rather than a wistful yearning for years gone by. Designed to make good the dietary shortcomings so common in those past middle life, GEVRAL provides those factors that make for healthy metabolism and enhanced resistance to disease. The dosage could scarcely be simpler—just one capsule, once a day.

or looking to the FUTURE?

GEVRAL*

GERIATRIC VITAMIN-MINERAL SUPPLEMENT. In bottles of 30 capsules.

* REGD. TRADEMARK

Each capsule contains:

Vitamin A	5,000 I.U.	Calcium pantothenate	5 mg.	Calcium (As CaHPO_4)	145 mg.
Vitamin D (Vioosterol)	500 I.U.	Choline dihydrogen citrate	100 mg.	Phosphorus (As CaHPO_4)	110 mg.
Vitamin B ₁₂	1 microgram.	Inositol	50 mg.	Boron (As $\text{Na}_2\text{B}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$)	0.1 mg.
Thiamine mononitrate	5 mg.	Ascorbic Acid (C)	50 mg.	Copper (As CuO)	1 mg.
Riboflavin (B ₂)	5 mg.	Vitamin E	10 Units	Manganese (As MnO_2)	1 mg.
Niacinamide	15 mg.	Rutin	25 mg.	Fluorine (As CaF_2)	0.1 mg.
Folic Acid	1 mg.	Pyridoxine HCl (B ₆)	0.5 mg.	Magnesium (As MgO)	1 mg.
Purified intrinsic factor concentrate	0.5 mg.	Iron (As FeSO_4)	10 mg.	Potassium (As K_2SO_4)	5 mg.
		Iodine (As KI)	0.5 mg.	Zinc (As ZnO)	0.5 mg.



LEDERLE LABORATORIES DIVISION *Cyanamid* OF GREAT BRITAIN LTD., London, W.C.2

COSCOPIN

TRADE MARK

(NOSCAPINE)

For Effective Control Of Cough



available as Linctus and Lozenges

Coscopin inhibits the cough reflex. It has the advantage over codeine that it is a mild bronchodilator, a mild respiratory stimulant and does not cause constipation.

COSCOPIN LINCTUS is pleasantly flavoured and contains 25 mg. of noscapine in each 2 teaspoonfuls (7 ml.). It is available in bottles of 4 fl. oz. (114 ml.) and 2 litres.

COSCOPIN LOZENGES each contain 25 mg. of noscapine and are available in a parcel of 6 prescription packs, each prescription pack consisting of a catch-cover containing 20 lozenges.

Further details available from the Medical Information Department

EVANS MEDICAL SUPPLIES LIMITED

SPEKE

LIVERPOOL 19



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

"Fair Wear and Tear"

A BELIEF long held among leasehold tenants has recently been exploded in the courts. It is the belief that, under a lease with a "fair wear and tear" clause, the tenant cannot be under any liability so long as he does not do any active damage to the premises.

Many leases contain such fair wear and tear clauses, under which the lessee undertakes to keep the premises or it may be the interior of the premises in good repair and condition, "fair wear and tear excepted." The general notion was that under the clause the tenant would not be responsible for any disrepair not brought about by his own active or wilful damage. In a case in 1957 a tenant had covenanted "to use and occupy the premises in a fair and tenantable manner and to keep the interior clean and in good repair and condition and decorated, except as to dilapidation or damage resulting from reasonable wear and tear." Under a further covenant the tenant had undertaken to permit the landlord to enter and view the condition of the premises and, upon notice being given to do so by the landlord, to carry out any interior repairs and decorations necessary to put the premises in as good a state of repair and condition as at the date the tenancy was granted. For about eight years up to 1957 the tenant did no internal decoration or repairs. His answer to a claim for dilapidations brought against him by the landlord was that all the damage was due to wear and tear, and that as tenant he was accordingly not responsible. The general principle to be applied in covenants of that kind had been expressed in a case decided in 1834, when the court had summed up the effect of such an exception as follows:

What the natural operation of time flowing on effects, and all that the elements bring about in diminishing the value, constitute a loss, which so far as it results from time and nature falls upon the landlord. But the tenant is to take care that the premises do not suffer more than the operation of time and nature would effect. He is bound by reasonable applications of labour to keep the house as nearly as possible in the same condition as when it was demised.

As the result of a decision given in 1937 the importance of those concluding words has been generally lost sight of, and opinion has prevailed that a tenant could sit back and allow the elements to have such effect on the premises as naturally occurs.

The 1937 decision, however, was given in a case in which the covenant that contained the wear and tear exception had been entered into by a landlord, and related to the exterior of the premises, on which the elements were likely to have a much more marked effect

than on the interior. The whole of the disrepair of the walls and roofs was found to be due to the elements, coupled with the absence of any steps by anybody to prevent further progress of the decay, and there was no suggestion of any abnormal use. In the more recent case already mentioned, the Court of Appeal pointed out that the principle enunciated in 1937 could not be applied to other cases, particularly where the covenant related to the interior of the premises. The onus is on a tenant seeking to rely on such an exception to prove that the dilapidations are solely due to wear and tear—and that may be difficult to prove where it is shown that the state of the premises might equally be the result of failure on the tenant's part to observe the positive repairing obligations imposed on him.

In the 1957 case the evidence was to the effect that the tenant had not used and occupied the premises in a fair and tenantable manner and had not kept the interior clean and decorated. It was not demonstrated that all the defects that could be complained of were dilapidations exclusively resulting from wear and tear. The trial judge held that the wear and tear exceptions did not apply in the circumstances, and that the tenant had broken his repairing covenants. With that view the Court of Appeal agreed.

It is thus for the tenant to keep the premises in the repair required by the covenant, particularly where the interior is concerned.

Horticultural Counter

SCOPE for the pharmacist to extend his efforts on the agricultural and horticultural sides of his business continues and even increases. His training and technical knowledge, if combined with a practical interest in his own garden, provide him with the ideal "know-how" for the expansion of turnover and income. Nature synthesises chemicals with almost careless bounty. The chemical ingredients of plants have fed pharmacists' drug requirements for centuries, and the range of new substances being discovered in the natural world is still extending. Phytopharmacy, we would estimate, is more active today than at any time in history but it is not unlikely that fewer pharmacists than previously find an interest in the subject. On another page (p. 155) we deal with the new plant hormone gibberellic acid. This is the latest of the "new" compounds which nature has synthesised and known for centuries, but which have hitherto been unrecognised by man. There are, of course, many other less complex compounds which the man in the street, requires, and he will continue to welcome advice and background knowledge from his local scientific adviser: the pharmacist.

MERCHANDISING MANAGER

J. J. HAYTON, Ph.C., M.Merch.

*I T'S not casting any reflection
In a too transatlantic direction
To picture the shock of surprise
In the old retail pharmacist's eyes
Had he noticed (when keenly engrossed
In his morning Victorian post)
An envelope we had today
Addressed in the usual way
But bestowing upon us a "wow"
Of a novel description—so now
In future our friends we're advising
We're a "manager of merchandising!"*

Onward from Galen

A CURRENT CAUSERIE

THE leaflets, mailing-cards, blotters and booklets of pharmaceutical manufacturers are often enough the subject of Press and medical comment, principally on the score of the heavy and constant assault they make upon the doctor's time and attention. The January issue of *Print in Britain* devotes four pages to an article in praise of the medical propaganda of one such manufacturer for a reason that is at least refreshingly different, namely its typographical excellence. The paper describes the printed matter of Geigy Pharmaceutical Co., Ltd., Wythenshawe, Manchester, 23, as "a bold typographic adventure," because it relies on a Swiss "cold, clinical style," using "stark, almost abstract" designs in an essentially typographic page plan. One difficulty that had to be faced was of finding printers in Britain with or prepared to obtain the special Swiss type (Berthold), but the latest report from the company is that "we are gradually building up a stock of Berthold standard type at various printers" and "our printers themselves become interested in the style of our design."

★

VETERINARY research, the use of animals in experiments, dogs in sputniks and the space-speed journeys of gorillas down rails with split-second stops to obtain data upon interplanetary travel, have all been in the news recently. One of the most recent occasions has been the failure of a couple of sleeping tablets to act upon a sheep dog, causing consternation when the dog bit an aeroplane. The dog's owner, a lady from the United States, has been warned by the Italian airline that, because of her "air-conscious" pet, she is liable to be sued for the cost of petrol jettisoned from the wounded plane, and for nineteen extra meals for passengers delayed by the bite. What happened was that, so soon as the plane became airborne, Maxie the dog, unaffected by the tablets, released himself from his crate in the luggage compartment and severed the cable controlling the tail plane. The air liner shook violently—an outward manifestation, no doubt, of the terror the machine experienced at the unexpected assault. The pilot turned the machine back, took safety precautions by dumping petrol, and landed safely. Mechanics discovered the severed cable, but Maxie was not interested in the accusations of unprovoked assault, for the sleepiness which beset him too late had made him lose interest in even the most appetising aeroplane. All of which shows the desirability of more research in the field of veterinary tranquilisers and sedatives, and especially into the interval at which such drugs begin to take effect on "air-conscious" dogs.

★

"'TWAS two years ago, I mind, when I fust 'eard that the Yanks 'ad took to buyin' their own scents an' so forth, i'stead o' pinchin' their wives'." Thus spoke the Old Man of the Dispensary, and rambling on he commissioned me to send his comments—with his compliments—to the pharmaceutical Press. "Allspice for men!" He breathed heavily. "Ar suppose them Jamaicans is bringin' it ower." "It's *not* allspice, it's —," began our Miss Jennings of the Cosmetic Counter, with all the impatience of Youth with Age. "Ssh," I smoothed her over, "Let him get going, and we'll hear something." "The Yanks 'r comin', smellin' ov Ewe de Cologne an' ar don't know what, an' all the trumpets is sounding for 'em on this side." The Old Man was a soldier in the First World War, and even if his knowledge of Atomic Science is hazy—and he's not the only one—he knows his Bunyan. He continued his soliloquy, ringing the changes. "Allspice for men, all men for spice, men for allspice!" Remarkable and dramatic pictures were conjured up as we listened: bearded stevedores walking on undulating planks, bowed down with sacks of spice, spitting professionally right and left without moving the

head, and threatening to strike for spice money. . . . Hordes of old men, complete with spice, standing by sarcophagi in the shadow of gaping pyramids, with piercing fanfares sounding on the (TV) trumpets. . . . The Old Man looked up from the Dispensary sink, heaved a large and incredibly dirty liquid-paraffin bottle into the bin, and finished his monologue. "Arsenic an' owd spice, that's what it oughta be."

★

ONE of the "best advertisements of the year" selected by Copytaster in the *Advertiser's Weekly* recently was for a proprietary cough mixture: Galloway's, now marketed by Eucryl, Ltd., Southampton. What seems to have influenced Copytaster most strongly in his choice was the contrast between present and past in the advertising of the product, for he wrote: "Until a month or two ago Galloway's cough syrup would always have been in the short list for the *least* beautiful." He liked in the revised version a "leisured, quiet, arty" quality which he considers all too rare in modern advertising. For those who may not have seen the advertisement, it consists of an illustration occupying almost half the space and showing a mother giving to her small son in bed in his dark bedroom a spoonful of medicine. Underneath are the headline "Mother was right" and nostalgic text aimed at evoking in the reader memories of his own mother similarly soothing him a generation ago. "In fact, believe it or not, Mother learned about Galloway's from her mother. For over sixty years Galloway's has been the family standby for coughs, etc." We give without any comments of our own Copytaster's reaction to the advertisement. Indeed it is hard for a pharmacist, conditioned to think in terms of Matters of Professional Conduct, to look at such an advertisement without widening the discussion by asking questions on other aspects. Is the product really the same as mother's mother knew? If so, can it stand up to competition, therapeutically speaking, with other remedies (reflecting, some of them, changed ideas on how a cough should be dealt with) that have appeared within recent years? Is not the climate of opinion today in favour of treatment of cough by a doctor and under the National Health Service? Are we looking on at the effort of a manufacturer to maintain or re-establish something that must eventually succumb to changed circumstances and ideas, or are some of the old-fashioned household remedies still the best, and only in need of "leisured, quiet, arty" advertisements to keep them going as strongly as ever? Time will show. In the meantime, other pharmacists may feel prompted to express opinions.

NEW ORAL DIURETIC

THE value of chlorothiazide (Saluric), a new oral non-mercurial diuretic, has been initially assessed in clinical observations and studies (*Lancet*, 1958, **1**, 120). Although the presence of a free SO_2NH_2 group in the molecule suggest that it would be a carbonic anhydrase inhibitor, its diuretic action is largely due to enhanced excretion of chloride ions with an almost equimolar loss of sodium. Bayliss and others observed twenty-four oedematous patients of whom seventeen had congestive heart-failure and eleven had poor responses to mersalyl. A daily dose of 2 gm. produced clearing of the oedema in fourteen patients. In seven the results were less satisfactory and in three they were poor. Slater and Nabarro relate experience with patients with the nephrotic syndrome, ascites due to portal hypertension and congestive heart-failure. Two patients with the nephrotic syndrome have been satisfactorily controlled for five or six months. Chlorothiazide seems to be well tolerated and gastrointestinal disturbances are unusual. The only side-effect noted was the development of hypokalaemia which was difficult to control with oral potassium supplements.

TOPICAL NOTES FOR THE HORTICULTURAL CHEMIST

GIBBERELIC ACID

Limited supplies provide the pharmacist with an opportunity to assist in horticultural research

IN the horticultural and agricultural research fields at the moment it would be difficult to find a more exciting and interesting substance than gibberellic acid. Superficial study suggests that its potentialities are enormous, though its application to maximum advantage in plant growth has to be confirmed by further research. Limited supplies of the compound are available to persons interested in plant hormones for research purposes, and a booklet has recently been published by Plant Protection, Ltd., Yalding, Kent, which provides a summary of the data so far obtained. The company state in the booklet that persons wishing to carry out tests should "apply to their chemist" to prepare sprays and dilutions if they do not possess laboratory facilities. For the convenience of pharmacists, the following details of the preparation of solutions are given.

Application

Gibberellic acid is effective in concentrations of 300 parts per million and upwards, and weekly doses over a period may be found more effective than higher but single doses. Soil inactivates the compound, and therefore it may be provided in aqueous solution (applied within twenty-four hours), in alcoholic solution, in lanolin paste or as a powder. Seeds and seed potatoes may be dusted with a 1 per cent. powder based on talc. 100 mgm. of gibberellic acid powder is dissolved in the minimum quantity of alcohol and incorporated with 10 gm. of melted anhydrous lanolin, stirring until cold. The 1 per cent. paste may be applied to the plant. The gibberellic acid absorbed is rapidly transferred by the plant to the sensitive areas.

Aqueous Spray

Aqueous dilutions should be used within twenty-four hours, but stock solutions in dry ethyl alcohol have an indefinite "life." As a guide for general purposes, however, the alcohol mentioned below may be industrial alcohol, surgical spirit, or methylated spirit. In dr. 3-6 of alcohol gr. 4 of the acid is dissolved, using a water bath if necessary. The resulting solution is added to 88 fl. oz. of water to give a solution of 100 parts per million. The following is a dilution table:—

5 fl. oz. to 2½ pints water makes a 10 p.p.m. solution

12 fl. oz. to 2½ pints water makes a 25 p.p.m. solution

26 fl. oz. to 2½ pints water makes a 50 p.p.m. solution

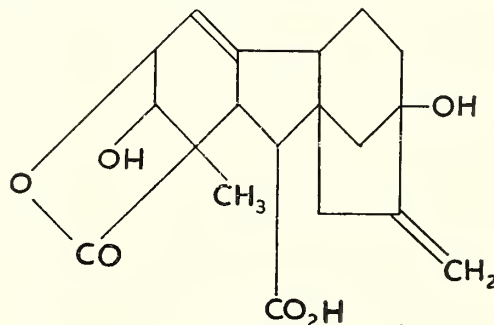
The above round figures in imperial measure are approximate, providing practical working solutions. The company's suggestion is that 0.1 c.c. of Agral LN or 0.03 c.c. of Agral 90 per litre may be added as wetting agent.

History

Gibberellic acid first came into prominence in 1926, during investigations by a Japanese plant pathologist (Dr. E. Kurosawa) of a fungus disease that normally attacks rice. *Gibberella fujikuroi*, the fungus in question, was grown on a nutrient medium for several weeks, after which Kurosawa filtered off cell growth and observed that rice seedlings grown in the filtrate reacted with abnormal growth. The effect paralleled the growth that occurred when a seedling was attacked by the fungus in the field.

Japanese development of work on the findings of Kurosawa was slow, and it was not until 1939 that Yabuta and Sumiki isolated a crystalline material which they termed gibberellin. Subsequent investigation has shown that that

substance was a mixture of compounds. Work upon those plant growth substances has since been taken up independently in Britain and the United States. Eventually the British workers were the first to successfully isolate pure gibberellic acid, and their results were published in 1955. In the same year American workers published their work. Attention was then diverted, both in Japan and in this country, to establishing the molecular formula of the acid. Synthesis upon a commercial scale has not yet been established, but the compound as issued at present is a white crystalline solid with the formula $C_{10}H_{22}O_6$ and a melting point of 223-35° C. It is soluble in 200 parts of water and has a stability in aqueous solution at 20° C. for at least twenty-four hours. A new chapter in the chemistry of plant hormones was started by the elucidation of the structure of the gibberellins; research is not confined to chemical structures analogous to indoleacetic acid.



Gibberellic acid

Gibberellic acid has been defined as a growth regulator, and its effect on growth has been associated with cell elongation, though in different circumstances cell proliferation also occurs. Elongation of the plant stem and sometimes of the leaf stalks is outstanding, and with grass crops the dry-weight yield has been observed to be significantly increased. Dwarf plants which have been treated have shown a greater response than normal plants but the seeds from treated plants have continued their dwarf habit. This may throw a sidelight upon dwarf mutants and indicate that their size is determined by their inability to synthesise within their structure a plant growth hormone. Apical dominance is characteristic of many plants and is observed in roses but after treatment some plants have produced long side shoots. The third effect is the induction of flowering. Flowering biennials respond as though the gibberellic acid has replaced the normal vernalisation or, where the plant demands a specific day-length, flowers have been induced. Fruit set has shown increases but the fast growing early dwarf varieties appear to respond whereas later varieties have failed in this respect. Seed germination may be accelerated with the production of normal stems but soaking in solution stronger than 50 p.p.m. is capable of producing stem elongation. Lastly corms, bulbs and tubers react earlier and potatoes have shown similar results but the reaction of this range of vegetative organs has not been explored to any great extent. The compound appears to have a low toxicity, as borne out by the apparent lack of effect produced by a dosage of 1 gm. per kilo of body-weight administered orally to rats.



Above: Begonia, showing treated and untreated plants. Note stem development but apparent unaltered leaf area. Below: Saintpaulia. The untreated plant is on the left and the treated plant on the right.

[Illustrated by courtesy, Drug and Chemical Exports]

Experimental work

A wide range of plants have already been tested, mainly with the intention of discovering the commercial possibilities of gibberellic acid with various crops. Flowers, corms, tubers, shrubs, trees, vegetables, fruit, grass and agricultural crops have been listed, but the amount of work upon vegetable drugs is limited. Biennials flowering in the second year may be encouraged to flower and seed in their first year (*Hyoscyamus niger* has been shown to follow that pattern). The application to flowering biennials takes advantage of the "substitute vernalisation" which the acid causes and was illustrated in the effect produced on Elberta peach trees. From previous studies it has been established that the resting period of those trees was broken after 950 hours of a temperature of 45° F.; it was therefore of maximum interest to discover that trees (subject to only 164 hours below 45° F.) treated with 1,000 and 4,000 p.p.m. spray solution produced small green leaves after fourteen days. One effect of that work would be the greater variety of peach trees which could be grown in a southern area. At the moment, peach crops are taken from a limited variety of trees requiring less stringent cold conditions to bring about vernalisation. Alternatively out-of-season crops may be possible in colder regions by growing under glass and displacing vernalisation by sprays. Xylem and phloem development in apricot shoots and branches have shown that the cambium is capable of stimulation into cell division, thereby producing a horizontal as well as a vertical growth. Conditions for cambial mitosis require further investigation. In the latter effect upon the apricot, it was the spur shoots which demonstrated increase in girth, and mitosis appears to have been weighted heavily in favour of the production of xylem. To obtain parallel development of phloem, it may be necessary to vary the conditions of application of the spray at the period at which the spur terminal buds have entered their resting phase.

Several years are expected to pass before full analysis of the data will allow exact forecast of effects in particular plants in specific conditions, and for that reason, no doubt,

the fact that supplies are now available to research workers should hasten the issue of the chemical. The promise that is already indicated from current work has no doubt encouraged research into the large-scale synthesis of the acid.

Pharmacists who may be interested in the compound and have the facilities to co-operate in the extension of such research work should write to Plant Protection, Ltd., Fernhurst Research Station, nr. Haslemere, Surrey.

THE WHOLESALE IN PHARMACY

Economic and ethical aspects of his relationship to his chemist customer

BY A WHOLESALE

FROM time to time one wonders what, in these changing times, is the position of the wholesaler in modern pharmaceutical business. It has been stated that the wholesaler is a vital link between the manufacturer, the retailer and the public, particularly in regard to prescription requirements. It is also an undisputed fact that many manufacturers supplying the day-to-day requirements—outside National Health Service needs—of retail pharmacy are increasingly anxious to supply direct to the retailer and cut out the wholesaler.

Some manufacturers, and not a few retailers, adopt the attitude that it is the function of the wholesaler to supply in small quantities when, for one reason or another, the retailer does not wish to buy direct. But when all is said and done the wholesaler, if he is to stay in business, has to find ways and means of counteracting the steadily growing overheads that have to be paid out of a fixed rate of profit. There are only two ways in which that can be done: by increasing turnover without materially increasing overheads; or by finding more economical ways of conducting his business.

Every wholesaler who has built up a reasonably sized business has done so on SERVICE, and it is doubtful if any other distributive business in this country today is able to call on such prompt and comprehensive service as can the retail chemist. Broadly speaking there are two categories of wholesalers to chemists—those who endeavour to give an all-round service, and those who have picked out the lines in which they are prepared to do business. Fortunately for all wholesalers a sufficient number of retailers do appreciate the efforts made to give a good service and do endeavour to work in with the wholesaler to ensure getting that service.

There is, of course, the vexed question of supplying only to pharmacists. That is a two-way consideration. Most reputable wholesalers have found it good business to restrict their activities to pharmaceutical outlets, but it is just a bit galling, when it occurs, to find that retailers are quite prepared to buy from wholesalers who make no pretence of restricting their business to pharmaceutical outlets, but who give hidden discounts in the way of goods.

As in most walks of life it is the small things that irritate most—here are just a few which we wholesalers find surprising:—

Return for credit of goods not supplied by the wholesaler to whom they are returned.

Cancellation of special orders because of the length of time taken to execute them (though that is completely outside the influence of the wholesaler, and though no inquiry is made as to whether goods will be left on wholesalers' hands).

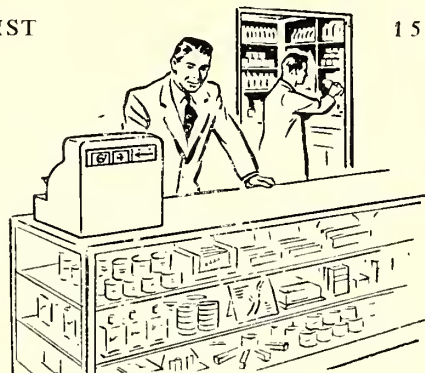
The keeping of seasonal goods for several months and then returning them for credit marked "Not as ordered," etc.

Perhaps one might be excused for suggesting that the code of ethics should be extended to dealings with wholesalers!

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

E. C. TENNER



THE problems of the grocer are not those of the chemist and the interests of the two may be at variance. Nevertheless, anyone who looks with a fresh eye at any form of retailing may be worth consulting and it was from that point of view I studied a recent article written by a young grocer. It was headed "How Important Is The Grocer?" The bold type stood black on the paper but it rose up to my eye and posed the sixty-four-thousand question: "*How Important Is The Chemist?*" Set as it is in a comfortable and traditional respectability of mahogany, chloroform-water and sealing-wax, one's mind tries to avoid questions like that, which almost sound like rudeness.

Faith in Ourselves

See what the young grocer said—"If we don't have faith in ourselves, how can we expect the Press and the public at large to respect us?". I have often expressed an exactly similar sentiment. But this is not the time for sentiments: we must force our minds to answer the key question and then act accordingly. In retail trade it is later than many of us think. Our customers will suit themselves regardless of any old-fashioned ideas of loyalty to their "family chemist." They cannot afford to do otherwise. Our competitors compete with us wherever they can best grab a share of our livelihood. Even our suppliers are, quite understandably, concerned to trim our margin of profit rather than their own.

So how important is the chemist? The answer is quite simple—only as important as medicine. Parliament and the public know that the chemist understands more about medicines than any other shopkeeper and, because of that, they will use his shop for National Health Service dispensing, medical supplies, general drugs and proprietary medicines. It is true to say that Parliament is at present in process of deciding whether the principle "all medicines ought to be distributed only by chemists" is a principle that is good for the public. The point of all this is that the only importance a chemist, as such, has to the public is derived from his specialist knowledge of medicines. Beyond that he is just another shopkeeper.

The code of pharmaceutical ethics does not allow more than very restricted advertisement of the purely pharmaceutical department of a business. No inducements may be held out to attract prescriptions. The dispensary, the dispensed items, and the way the customer is dealt with, must speak for themselves. The policy of the Pharmaceutical Society therefore forces the chemist to exercise his initiative upon general retailing, because it is an economic fact that a chemist cannot live simply by dispensing and selling medicines. To expand his turnover and pay his overhead expenses he must sell other things than medicine—and in comparatively large quantities. Those other things do not have any influence upon his importance as a chemist, though he has been selling some of them (cosmetics, and cameras and photographic films) so long that he feels he has a prior right to sell them. He sells those side lines then in fierce competition with other traders who are not always non-pharmaceutical but who may even be cosmetic or photographic specialists. That is plain retail trading. The young grocer says: "The fundamental principle of all retailing is to have what the customer wants, when she wants it, where

she wants it, presented in the best possible way. . . . Different people have different wants, so businesses are built to fill those not sufficiently served by existing shops." I agree with him. So if it is not medicine the customer wants there is nothing to bring her into your shop to spend her money unless she knows you will fill *her* needs better than your competitor.

In building my business there are four factors which I can influence. All are equally vital to comfortable solvency. I list them, but not in order of priority: the merchandise, the price, my representative at my counter, my shop. If I want to keep abreast of change, and at least level with my competitors, I must keep those factors under constant review, followed by action where needed.

What about merchandise? What indeed? Sixty or seventy years ago our merchandise was kept in about a gross or two of assorted "shop rounds" on mahogany shelves round the shop and dispensary, and in specially made nests of three or four dozen mahogany drawers. There were a few sacks and barrels in the stockroom, a handful of secret proprietary remedies, and a glass case or two of toilet luxuries and perfumes. The stock items remained the same year after year, and it must have seemed that retail pharmacy would and should go on like that for ever. We have all been living through the changes, and if only we understand them and realise their purport we can meet and profit by them. We have reached the state when an overnight television advertisement may bring us customers next morning asking for a product we may not even have heard of. If we disappoint our customer she will then probably obtain her requirement from our more enterprising competitor and register an impression that our stock is not exactly up to date. We are therefore forced so to organise our buying policy that new lines are always available in addition to the older favourites. That means, first, that the chemist must watch his morning post, carefully filing for use all the sales information that comes to him. He must watch the pharmaceutical Press with a lynx eye. Only a fool will leave his trade periodicals unopened. Having done all that, he must have the efficient co-operation of a first-class wholesaler, because he will always require urgent and experimental quantities. To keep control over stock bought he must have stock books kept to record orders and dates. This business must be approached scientifically. If the chemist is to have any leisure at all he must devise a buying system that will reduce his problem to rule-of-thumb routine. That can be done, but initial thought and effort are required and that is what most chemists naturally will put off exercising until they realise the urgent need for it.

Avenues in Need of Exploration

Assuming now that the merchandise is in the shop. Its numbers and variety are legion indeed. How hopelessly useless are the out-of-date mahogany shelves and drawers! They hide and spoil the merchandise! The "shop" factor is now obtruding into our field of consideration, and what about prices and sellers? There is a great deal more to understand about them that we chemists cannot afford to ignore. I, at any rate, shall go on with this valuable "stock-taking." The article by the young grocer has certainly opened up some important avenues to explore.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Aluminium Tubes

SIR,—I was surprised to read in your columns (*C. & D.*, February 1, p. 125) that aluminium collapsible tubes with elongated nozzles are claimed as a new development. I would point out that we have been supplying tubes of that type for ophthalmic and veterinary purposes as a standard line since the early part of 1957. We have supplied many thousands of gross to well-known pharmaceutical houses, and our customers have expressed complete satisfaction with the tubes which, as mentioned in your publication, are considerably cheaper than pure tin tubes.

FLEXILE METAL CO., LTD.,
J. A. HALSBY, Director
Stevenage, Herts

Better Profit Margins

SIR,—In your issue dated June 22, 1957, you published a letter referring to profit margins on cameras to be supplied against a cigarette manufacturer's coupons. The cameras were to be supplied at half the chemist's usual profit and my letter condemned the practice. Today it is with pleasure that I write, having been informed by the same company that they are instituting a scheme for increasing profit margins, together with an extended credit scheme which, in my opinion, will help photographic dealers to keep good stocks whilst spreading the capital outlay over the peak season. I am sure that helpful schemes of this nature will earn the co-operation of retailers much more than ill-advised coupon schemes, and I can only hope that other manufacturers and agents will follow this good example rather than be influenced by the earlier malpractice.

G. BIRD,
Welwyn Garden City

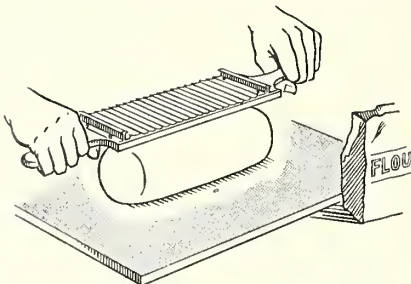
Material Available for Tests

SIR,—In the course of some investigations into Dr. Lahkovsky's theories on the electrical charges within the living cell, a private, non-commercial research group has discovered something that may be of some interest to the cosmetic industry. Various plants were irradiated and the juice extracted for microscopic and electronic investigation. The juice was obtained by the rather primitive method of mincing and squeezing the resultant pulp through a jelly bag. A few days later it was noticed that the skin on the hands of the young woman who did the pulping and squeezing was astonishingly smooth and velvety and free from blemishes, her hands normally being rough-skinned and blemished. Trials were made on the complexions of various wives and other female volunteers, and there is no doubt now that the substance has an almost sensational rejuvenating effect on the skin. The consensus of opinion of our female "guinea-pigs" is that it does "all those things the cosmetic advertisements say they will do but never seem to do in practice." So far as may be judged,

the substance is completely bland and harmless, even to the eyes and mucous membranes, though it is slightly astringent. The plant in its wild state is not very plentiful. It is not listed in the British Pharmacopoeia, but no doubt could be cultivated in quantity if necessary. A small amount of the extract is available, free of charge, for experimental purposes and we are prepared to co-operate with any responsible organisation that cares to pursue the matter more fully.

PETER RANTELL
The Studio, Mill Street,
Dalbeattie, Kirkcudbrightshire

SWORDS INTO PLOUGHSHARES ?



Amende Honorable !

SIR,—I hope others will be encouraged, as I was, to find that, even among hard-headed business men in this mad world, there is still time for kindness and humour. I had occasion to examine my stock of Kest tablets when one packet had been returned by a customer with a complaint. I found them all damp and unfit for consumption. I packed them up with a covering letter to Eucryl, Ltd., Southampton, from whom I had obtained the tablets, asking for replacement or credit, pointing out that I considered the nature of the tablet called for better packing, especially for seaside sale. As the packet sent was not the first I had returned I was a little annoyed and wrote at the foot of the letter:—

KEST as now dressed are a perishing pest. Imagine my surprise to receive a letter in a few days time, informing me that Messrs. Eucryl were no longer handling the product. To help me they had repacked and forwarded the tablets to Bangor, co. Down, Northern Ireland. I said goodbye to my credit or exchange of stock, but how kind of Messrs. Eucryl to repack and forward at their expense ! In less than a week, came a large parcel from Bangor, with the enclosed letter:—

DEAR MADAM,
Upon your request
We exchanged the Kest
Which failed the test.
Now we are pressed—
Positively obsessed—
That we shall be blessed
With forgiveness, lest . . .
We cannot rest
And lose our zest,
So please do your best.

P.S.—We risk becoming a bore
By enclosing samples five score.
How can we do more?

KEST, LTD.

We all had a good laugh, and the stock was exchanged plus two extra packets for postage and 144 samples.

EDNA EVANS
Weymouth, Dorset

Plastic Hot-water Bottles

SIR,—We have read with great interest and appreciation the article in your issue of January 25 (p. 84) concerning, among other things, the report on polythene hot-water bottles published by the Association for Consumer Research in their journal *Which*. As that report bears a reference to one of our products (the Suba plastic hot-water bottle) we are naturally more than interested, and though we appreciate that our product has been given qualified approval by the Association, we feel that a few more details of our own tests may be of interest to your many readers. As one of the largest hot-water bottle manufacturers in this country today (in our Suba Seal range of rubber hot-water bottles there are actually twenty-seven different types) we can claim at least a reasonable understanding of the technicalities of hot-water bottle manufacture. It is our considered opinion that only the best rubber hot-water bottles manufactured to British Standard Specification 1970 can have advantages over plastic hot-water bottles. Conversely we claim that the Suba plastic hot-water bottle has advantages over a rubber hot-water bottle. It becomes a question of choice by the public. We do, however, emphatically state and believe that plastic hot-water bottles are here to stay, and in point of fact we shall be releasing five different types during 1958. Under separate cover we are forwarding to you a sample of a Suba plastic bed-airer shortly to be released. The airer is designed to replace the stone hot-water bottle, and it possesses all the advantages and none of the disadvantages of that type. Principal features are lightness in weight, greater heat radiation and, of course, that it is unbreakable. I would welcome any tests you may care to make on the bed airer or on the Suba plastic hot-water bottle, which I may mention is the result of extensive research both by the material manufacturers (who have guaranteed the performance of the material with high temperatures), by our own laboratory, and in normal daily usage.

WILLIAM FREEMAN & CO., LTD.
S. W. FULLER, General Sales Manager

[Mr. Fuller sent with his letter a detailed report on the Suba plastic hot-water bottle, including laboratory tests carried out by the manufacturers. They showed that the bottle suffered no softening after 100 hours' continuous contact with steam; no distortion after forty-eight hours subjection to ultra-violet light, and no deterioration in a "rapid-ageing" test.—EDITOR.]

SYNTHETIC ANALGESICS

Importance of spatial configurations discussed at Dartford

"SYNTHETIC Analgesics, Including Recent Developments" was the subject of an address given by DR. M. J. HARPER to a joint meeting of the Dartford and District Branch of the Pharmaceutical Society and the Kent subsection, Royal Institute of Chemistry, recently.

Dr. Harper enabled members to view his work in perspective by dealing briefly with some of the more important classes of analgesics, including morphine and its derivatives, the morphinans, pethidine-type compounds, methadone and related compounds, and the dithienyl-butenylamines. He stressed the importance of spatial configuration and emphasised that, where optical enantiomorphs had been prepared, one was always more active than the other of each pair and often the whole of the activity of the racemic mixture resided in one isomer. The significance of the difference in activity of optical isomers in drug-receptor mechanism had only become established when the configuration of the isomers came to be elucidated, no light being thrown on the relative arrangement of groups about the asymmetric carbon atom by the actual sign of rotation.

Dr. Harper showed how (—)-methadone, (—)-3-dimethylamino-1:1-diphenylbutyl ethyl sulphone, (+)-dimethylthiambutene and (+)-diethylthiambutene all possessed identical configurations related to D-(—)-alanine.

The speaker discussed the use of rotational displacement measurements as a means of determining configuration, and demonstrated the inapplicability of Freudenberg's displacement rule and Leithe's rule to certain systems. He showed, however, by a study of molecular rotations in various solvents, that the configuration of (—)-phenadoxone was related to that of (—)-methadone. A third method of determining configuration, by the use of stereo-selective absorbents was outlined, and the method was illustrated by experiments with quinine-type alkaloids.

The speaker discussed the factors that might be involved in the different biological activities of isomers, and from a consideration of analgesics and their antagonists developed the ideas (a) that a specific receptor site was involved in analgesic and anti-analgesic activity, and (b) that stereochemical factors were of great importance.

Morphine and the morphinans, both with rigid structures in which the relationship of the various asymmetric centres has been established, were used by Dr. Harper as models for a consideration of the most probable surface for presentation to a receptor site. The synthetic analgesics, such as methadone, pethidine, α and β -prodines, and the thiambutenes were considered in that context. From them, and from a consideration of chemical reactions, dissociation constants and infra-red data, Dr. Harper concluded such compounds in solution would have such a conformation that they would fit on the proposed receptor site. He discussed

the steric requirements about the anionic site of the analgesic receptor, and showed that a relationship exists between analgesic activity and the width of the basic group in methadone and thiambutene-type compounds.

Features thought to confer analgesic activity at least equal to that of pethidine were summarised as (1) a basic centre that is ionised, or partially ionised, at physiological pH, so as to associate with an anionic site in the receptor surface; (2) a flat aromatic structure in the molecule to allow a strong collective van der Waals' force bonding to a flat portion of the receptor reinforcing the ionic bond; (3) basic group and the flat structure contrived to be in almost the same plane by holding a completely rigid or a slightly less rigid molecule in the correct configura-

DEVELOPMENTS IN THE UNITED STATES

Innovations in medicine, pharmaceuticals, horticulture, etc.

Detecting Heart Murmurs

A heart sound pickup that detects chest wall movements as small as one-half billionth of an inch is being used in heart research carried on in a sound-proof room at the Medical College Hospital, Charleston, South Carolina, to "hear" murmurs inaudible to conventional recording instruments. Known as a capacitance heart sound pickup, the device converts an automotive engine pressure measuring technique into a supersensitive research "tool" for studies of faint heart murmurs that may reveal presence of defects of the heart's valves at an earlier stage than was possible before.

Broad-spectrum Anthelmintic

A team of nine physicians and researchers in a study conducted among more than 400 persons, which was supported in part by the National Institutes of Health of the U.S. Public Health Service, has announced that a single drug, dithiazanine, has been found to be effective against five different types of human worm infestation. The drug is a blue powder which is insoluble in water. Because it is not absorbed readily from the stomach it is administered in tablets designed to delay release of the compound until after passage through the stomach. Its side-effects are claimed to be few. Treatment for the various infections varies in length from three to twenty-one days.

Detection of Mercury Poisoning

Research workers at the Brooklyn Jewish Hospital, Brooklyn, New York, have devised a method of detecting mercury poisoning in industrial workers. The method was evolved after the study of chemicals that are used to convert mercury present in urine into a form that could be easily recognised. Use of the agents, which eliminate the old time-consuming process, make it possible to run as many as twenty to thirty tests in a single day as compared with approximately six tests possible by ordinary methods. Those new lists should provide a valuable tool to study

tion by steric or other constraints; and (4) a suitably orientated projecting hydrocarbon moiety to form, with the basic centre and flat aromatic structure, a three-dimensional geometrical pattern.

Although "fit" at a receptor site was conceived as an essential part of the sequence of events resulting in biological response, the speaker emphasised that the "fit" did not of itself necessarily mediate an analgesic response. Dr. Harper put forward the hypothesis that, after fit at the receptor surface, an oxidative demethylation was involved, resulting in the formation of a nor-compound, and that that nor-compound then took part in a further sequence of reactions resulting in the biological response. The evidence substantiating such a hypothesis was discussed.

MR. D. STEVENSON (chairman, Dartford Branch) presided. A vote of thanks to the speaker was proposed by MR. H. G. MURFITT and seconded by MR. J. SIMPSON.

the way in which mercury assists the kidney in excreting water, when mercurial diuretics are given to patients with oedema, particularly in congestive heart failure.

Treating Geranium Plants

Diseased geranium plants can be cured and restored to normal condition by chemotherapeutic treatment with readily available chemical compounds, according to E. M. Stoddard, a plant pathologist and botanist at the Connecticut Agricultural Experiment Station, New Haven, Connecticut. He used a mixture of oxyquinoline sulphate $\frac{1}{4}$ oz. and streptomycin sulphate $\frac{1}{4}$ oz. in 10 gall. of water. The mixture was applied as a soil drench. Following five applications at weekly intervals, about 80 per cent. of the diseased plants recovered and regained normal condition. Only about 10 per cent. of the untreated diseased plants survived. Cuttings made from the treated plants showed no evidence of stem or root rot.

Blood Test for Myocardial Infarction

A laboratory blood test that aids in the diagnosis of myocardia has been announced by a group of Detroit, Michigan, research workers. According to Mr. R. P. MacDonald, Dr. John R. Simpson and Mr. Egon Nossal, all of Harper Hospital, Detroit, determination of lactic dehydrogenase (LDH) levels in the blood stream may be used to aid the diagnosis of myocardial infarction. Lactic dehydrogenase is increased in the blood stream after muscle cell destruction. The new test is claimed to be especially useful when an electrocardiograph fails to give a clear picture of heart damage or when complications occur after myocardial infarction. While several other diseases cause increased LDH levels, generally they are not confused with acute myocardial infarction because of other diagnostic signs. Some diseases which show the same symptoms as myocardial infarction do not cause rises in the LDH levels. Thus the LDH test may be used in the differentiation of such illnesses.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 5: There was no easing in the short supply position of IPECACUANHA although one source suggested that Costa Rican might be available at 78s. per lb., c.i.f. Firm shipment offers were also absent for Cape ALOES, PERU BALSAM and PAPAIN.

A limited quantity of broken CASSIA BARK came on offer on the spot, and quotations for new crop Jamaican GINGER were received at 490s. per cwt., c.i.f., although no business was reported done at that level. MENTHOL continued a weak market with most varieties down by sixpence per lb. TURMERIC lost one shilling per lb., for shipment. Among AROMATIC SEEDS Cyprian CUMIN was dearer for shipment. With lower prices at origin for AGAR, spot holders reduced their duty-paid prices by three-halfpence per lb.

With the exception of BERGAMOT and ORANGE oils most ESSENTIAL OIL prices were weak. Lower per lb. were: ANISE, Formosan CITRONELLA and LEMONGRASS (each by three-halfpence); Chinese PEPPERMINT (by threepence); BOIS DE ROSE (by ninepence); PATCHOULI (by one shilling); CELERY SEED (by 2s. 6d.); CORIANDER and PALMAROSA (by 5s.). Imported GINGER (Jamaican) was also quoted lower at 135s. per lb., down 32s. 6d.

AMIDOPYRIN was increased by about 1s. 3d. per lb., but PHENAZONE (which usually changes at the same time) remained unaltered. A number of IRON salts are dearer by about 2s. 6d. per cwt. SANTONIN was lower.

Pharmaceutical Chemicals

AMIDOPYRIN.—Dearer. Minimum rate is 25s. 2½d. per lb. with usual differentials for small lots.

ASPRIN.—5-cwt. lots are 4s. 9d. per lb.; 1-cwt., 4s. 11d. The CALCIUM SALT is 12s. 6d. per lb.

BENZAMINE. — In 16-oz. lots LACTATE is 15s. 3d. per oz. and HYDROCHLORIDE, 16s. 3d. per oz.

BENZOIC ACID.—1-cwt. lots are 2s. 11½d. per lb.; the SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

BENZYL BENZOATE. — 1-ton lots of B.P. grade are 4s. 6d. per lb.

BORAX. — The following rates operate until February 17 when they are being replaced by higher schedules:—B.P. grade for quantities of 1-ton and upwards: Granular, £54; crystals, £56 10s.; powder, £57 10s.; extra fine powder, £58 10s. per ton. Prices of commercial range from £44 to £46 10s. per ton, as to type and packing. Dehydrated borax is £66 per ton in paper-lined hessian bags or £65 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3-cwt., 2s.; 1-cwt., 3s.

BORIC ACID.—Dearer from February 17. Present prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £87 10s.; crystals, £94 10s.; powder, £92; extra-fine powder, £94 per ton, in lined hessian bags, carriage paid in Great Britain.

CARMINE. — Price is 100s. per lb. for 1-cwt. lots.

CHALK. — Prepared powder, B.P., is £22 per ton for minimum 1-ton lots ex works.

CHINIOFON.—B.P. 1948 is 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953) is 99s. 4d. and 92s. 9d. for the same quantities.

CHLORIBUTOL.—28-lb. lots are quoted at 103. per lb.

CHLOROFORM.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d. per lb. respectively.

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

GALLIC ACID.—B.P.C. is 9s. 7d. per lb. for 1-cwt. lots. Smaller lots up to 10s. per lb. for 14-lb. lots. Technical grade is 8s. 10d. per lb. in 1-cwt. lots.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d.; CALCIUM, soluble B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MANGANESE, soluble, B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

HYDROCYANIC ACID. — Dilute B.P.C. is from 3s. 2d. to 4s. per litre, as to quantity; Scheeles is from 3s. 10d. to 4s. 9d.

HYDROQUINONE.—Quotations for 1-cwt. lots are 11s. 6d. per lb. or 25s. 4d. per kilo.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 6d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9½d. per lb. in 28-lb. lots; 1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 118s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt., 3s. 6d. OXIDE, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C. 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM SULPHATE, 1-cwt., 1s. 7d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100-gm. lots.

LACTATES.—CALCIUM, B.P., is 2s. 10d. per lb. in 5-cwt. lots and 2s. 11d. in 1-cwt. lots; CALCIUM SODIUM for similar quantities is 4s. 9d. and 4s. 10d. per lb.

LACTIC ACID. — B.P. is 4s. 5d. per lb. for 12-winchester lots and 4s. 4d. for 5-cwt. lots.

LACTOSE.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £129 10s. per ton, delivered in the United Kingdom.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum 1-ton lots vary between £18 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

MERCURY DERIVATIVES. — Steady. Quotations (per kilo) for less than 50-kilo lots are now as follows:—AMMONIATED, B.P., powder, 48s. 3d. and lump, 49s. 6d.; SUBCHLORIDE (calomel), B.P., 55s., oxides, yellow, B.P., 58s. 3d.; red B.P.C., 1949, 59s. 4d.

PHENYTOIN SODIUM. — B.P. is 23s. per lb. in 1-cwt. lots.

PYROGALLIC ACID. — Firm. Pure crystals are 22s. 6d. per lb. in 1-cwt. lots; resublimed, 24s. 3d.

QUININE. — Makers' rates for 1,000-oz. lots are now:—SULPHATE, B.P.C., 1932, 1s. 10d. per oz.; SULPHATE, B.P.C., 1953, 2s. 0½d.; BISULPHATE, 1s. 10d.; DI-HYDROCHLORIDE, 2s. 4½d.; HYDROCHLORIDE, 2s. 6½d.; ETHYL CARBONATE, 4s. 3d.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER, ordinary strength is 160s. 6d. per cwt. in 1-cwt. lots; smalls, from 2s. to 2s. 3d. per lb. Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities. Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb.

SACCHARIN.—In lots of 1-lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

SANTONIN.—Minimum terms for home market are 420s. per kilo.

SEMICARBAZIDE HYDROCHLORIDE.—Technical grade is 19s. per lb. for 1-cwt. lots.

SULPHUR.—B.P. PRECIPITATE in 1-ton lots is £112 10s. per ton, delivered U.K.

TANNIC ACID.—The B.P. levis, ex ether is quoted at 10s. per lb. for 1-cwt. lots. The B.P. powder is 9s. 6d. per lb. in 1-cwt. lots.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH.—B.P. is 2s. 3d. per lb.

TERPINEOL. — Prices of B.P. grade are from 3s. to 3s. 6d. per lb. as to quantity.

TERPIN HYDRATE. — Prices are from 6s. per lb., upwards as to quantity.

THEOBROMINE. — ALKALOID is from 24s. 6d. per lb. and SODIUM SALICYLATE, 22s.

UREA.—Manufacturers' rates for pharmaceutical grade are £63 per ton in 1-cwt. bags non-returnable. Technical quality is £44 10s. per ton.

ZINC CARBONATE. — In 1-cwt. lots the price is 1s. 9½d. per lb.

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 115s. per cwt.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 9d. per lb.; technical, 60s. per cwt.

Crude Drugs

AGAR.—Kobé is 12s. 1½d. per lb., duty paid. New-crop for February–March shipment, 10s., c.i.f.

ALOES. — Cape prime: No definite shipment offers, nominally 230s. per cwt., c.i.f.; spot, 250s. Curaçao, 500s., spot.

ANISE (STAR).—Chinese is 130s. per cwt. c.i.f., and 150s., spot in bond.

ARECA NUTS. — F.a.q. quoted at 67s. 6d. and selected, 140s. per cwt. landed.

BALSAMS.—Quotations (per lb.) are:—CANADA: Spot, 25s. 6d. to 26s. and shipment, 25s., c.i.f. COPAIBA. Para from 7s. 9d. to 11s. duty paid. PERU spot value 11s. 6d.; shipment not offering. TOLU (genuine as imported), 25s. 6d.; B.P., 17s.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot (1s. 6d., c.i.f.). ROOT 1s. 10d. spot; shipment, 1s. 3d., c.i.f.

BUCHU.—Spot rounds are 7s. 9d. per lb., new-crop for shipment, 6s. 9d., c.i.f.

CAMPOR.—B.P. POWDER is from 5s. 3d. per lb., duty paid. TABLETS, ¼-oz. are 6s. 6d., in bond.

CAPSICUMS. — East African are from 150s. to 200s. per cwt. on the spot.



Two ways are better than one

Neat and convenient, this new presentation of 'Vasylox' will attract customers. Squeezed when upright, the plastic container ejects a fine, even mist; squeezed gently when inverted it delivers drops. Used either way, 'Vasylox' Spray rapidly clears nasal congestion. It is pleasant to use, does not cause irritation, stinging, sleeplessness or excitability, and is thus specially suitable for children.

'Vasylox' Spray retails at 3/6 (exempt from purchase tax). An attractive display-stand, to hold three units, is supplied with each half-dozen. Do not forget to include 'Vasylox' Spray in your next order.

'VASYLOX' BRAND nasal SPRAY

Solution of methoxamine hydrochloride 0.25 per cent



BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.)

LONDON



For the treatment of coughs
'ROMILAR'
in three forms

'ROMILAR' Syrup

dextromethorphan
hydrobromide
15 mg. in each 5 c.c.

BOTTLES OF 100 c.c. AND 500 c.c.

'ROMILAR' Tablets

dextromethorphan
hydrobromide
15 mg. in each tablet.

PACKINGS OF 20, 100 AND 200.

FOR USELESS COUGH

and for habit cough following whooping cough, measles and bronchitis. It is particularly useful for the suppression of cough when the patient is seriously ill and in need of sleep; in the advanced stages of pulmonary tuberculosis and in congestive cardiac failure. It can also be of great benefit for suppressing cough caused by reflex irritation such as is associated with tumour of the lung, larynx or mediastinum.

'ROMILAR'
Expectorans

dextromethorphan
hydrobromide 15 mg.
Ammonium chloride
300 mg. in each 5 c.c.

BOTTLES OF 100 c.c. AND 500 c.c.

FOR PRODUCTIVE COUGH

In infections of the respiratory tract, particularly when there is secretion of thick tenacious sputum, 'Romilar' Expectorans can be given to increase the flow of mucus, thus liquefying the secretion and making expectoration easier.

CARDAMOMS. — Aleppy greens are 16s. per lb. on the spot; shipment, 14s., c.i.f. No. 1 seed 24s. 6d., spot; shipment, 21s., c.i.f.; split seed, 17s.

CASCARA SAGRADA. — Spot 1956 processed peel is 320s. per cwt., duty paid, and 1957 peel, from 285s., with shipment at 252s. 6d., c.i.f.

CASSIA. — Selected whole bark in limited supply on the spot at 230s. per cwt. and broken at 215s., in bond. *C. fistula*, new crop 90s. per cwt.

CINCHONA. — Parcels of druggists' bark *Succirubra* hybrid are from 1s. to 1s. 6d. per lb. on the spot, according to test.

ERGOT. — Portuguese is 5s. 6d. per lb. c.i.f. for prompt shipment and 6s. spot. American, 5s. 9d., spot; Hungarian, 7s. 9d.

GINGER. — African, 112s. 6d. per cwt. on the spot; new-crop for shipment, 110s., c.i.f. Jamaican No. 3 on the spot is 535s. per cwt. February–March. 490s., c.i.f. Cochin spot, 100s.

GUM ACACIA. — Kordofan cleaned sorts are 135s. per cwt. on the spot; prompt shipment, lower at 123s. 6d., c.i.f.

HONEY. — Australian light-amber is 110s. to 115s. and medium amber 105s. to 110s. Argentine 125s. to 130s.; Jamaican, 140s. to 145s., all per cwt., on the spot.

IPECACUANHA. — No firm shipment offers; Costa Rican, 78s. per lb., c.i.f. suggested. Spot market bare.

KARAYA. — No. 1 gum on the spot is quoted at 240s. per cwt. and No. 2 at 155s.

KOLA NUTS. — Jamaican are offered at about 8d. per lb. spot, and 6½d., c.i.f. African, 5½d. spot and 4½d., c.i.f.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

MENTHOL. — Chinese is 52s. 6d. per lb., duty paid and 48s., c.i.f.; Brazilian, spot, 40s., duty paid, shipment, 37s. 6d., c.i.f. Formosan for shipment, 44s., c.i.f. Japanese, 46s., c.i.f.

PEPPER. — White Sarawak is 2s. 1½d. per lb. on the spot; February shipment offering at 2s. 0½d., c.i.f. Black Sarawak, 1s. 5½d., on spot and shipment at 1s. 4½d., c.i.f. Black Malabar on spot is 190s. per cwt. and shipment, 175s.

QUILLAIA. — Spot offers of whole bark at 185s. per cwt.; cut, 215s.; crushed, 230s. Shipment offers (whole bark) at 150s., c.i.f.

RAUWOLFIA. — *Serpentina* is 4s. 3d. per lb., c.i.f. and *vomitoria*, 2s. 3d., c.i.f.

RHUBARB. — Quotations for Chinese are from 6s. to 9s. per lb., as to quality.

SARSAPARILLA. — Jamaican native red on the spot is 2s. 7½d. per lb.

SCAMMONY. — Mexican resin is offered at 1s. 4d. per lb. on the spot.

SEEDS. — (Per cwt.). ANISE. — Cyprian quoted at 167s. 6d. spot, London. CARAWAY. — Dutch in poor demand at 97s. 6d., duty paid. CELERY. — Indian quiet with sellers on spot asking 195s.; sellers of shipment for old crop asking 157s. 6d., and new crop, 120s., both c.i.f. CORIANDER. — Steady. Spot: Moroccan, 70s.; Rumanian, 65s. and splits, 52s. 6d., all duty paid. Moroccan for shipment unchanged at 47s., c.i.f. CUMIN. — Cyprian, 200s. on spot, with some business passing. Iranian, 175s., in bond. Cyprian dealer for shipment at 175s. to 180s. quoted, c.i.f. DILL. — Unchanged. Indian 65s., spot, shipment quoted at 49s., c.i.f. FENNEL. — Indian is in short supply on spot. Business passing about 185s. to 190s. Old crop for shipment sold at 150s., c.i.f. FENUGREEK. — Fair business passing in Moroccan at 52s. 6d., duty paid; afloat sold at 45s. landed and shipment, 37s., c.i.f. MUSTARD. — English 67s. 6d. to 80s., according to quality.

SLIPPERY ELM. — Grinding quality bark is 2s. 7½d. per lb.

STROPHANTHUS. — *Kombé* on the spot is 8s. 6d. per lb. for the 100 per cent.; *Gratus* is unobtainable spot; shipment, 18s. 6d. per lb., c.i.f.

STYRAX. — For shipment, 9s. 3d., per lb., c.i.f. Spot cleared.

TONQUIN BEANS. — Para on the spot are offered at 8s. 6d. per lb.

TRAGACANTH. — No. 1 ribbon is £130 to £135 per cwt., No. 2, £125 to £127 10s.

TURMERIC. — Madras finger on the spot is 55s. per cwt. New-crop (March–April) quoted at 50s., c.i.f.

VALERIAN ROOT. — Spot: Indian (with rootlets) is 130s. and Belgian, 175s. to 195s. per cwt. Dutch (max. 2½ per cent. sand) for prompt shipment, 168s., g/n, c.i.f.

Essential and Expressed Oils

ANISE. — Chinese, 10s. 10½d. per lb., spot; shipment, 10s. 9d., c.i.f.

BERGAMOT. — Spot supplies are from 86s. 6d. per lb. for 38 per cent. oil.

BOIS DE ROSE. — Brazilian is 24s. 6d. per lb. on the spot and 23s. 6d., c.i.f.

CELERY SEED. — Oil is 92s. 6d. per lb. for bulk lots.

CHENOPODIUM. — Spot value is 40s. per lb. for original containers.

CINNAMON. — From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 11s. 6d., per lb. nominal and shipment, 11s. 3d., c.i.f. and rectified, 15s. per lb., spot.

CITRONELLA. — Ceylon, spot, 4s. 4½d.; shipment, 4s. 0½d., c.i.f. Formosan, February–March shipment, 5s., c.i.f. Spot: 5s. 4½d., in bond.

CORIANDER. — B.P. oil is quoted from 70s. per lb.

CUMIN. — Quotations for English-distilled oil are about 95s. per lb.

DILL. — B.P. imported is 36s. per lb.

GERANIUM. — Bourbon is 110s. per lb. on the spot and Algerian, 92s. 6d.

GINGER. — English-distilled oil is 160s. per lb. Imported: Jamaican, 135s.; Chinese, 100s., duty paid.

LAVANDIN. — Spot is from 11s. to 14s. 9d. per lb. for original drums.

LAVENDER. — French oil, 40–42 per cent. is 55s. per lb.

LAVENDER SPIKE. — Spanish is offered from 12s. 6d. to 15s. per lb. on the spot.

LEMONGRASS. — Spot is 7s. 3d. per lb., and shipment, 7s. 1d., c.i.f.

ORANGE. — Spot quotations of sweet oil include Floridan at 6s. 6d. per lb., Californian, 9s. 6d.; West Indian, 9s.; South African, 9s.; West African, 14s. 6d.; Israeli, 12s. For shipment, proprietary brand Californian cold-pressed U.S.P., no offers; distilled equals 5s., c.i.f. Terpeneless is 200s. per lb., spot.

PALMAROSA. — East Indian, 30s., spot, and 25s., c.i.f.

PATCHOULI. — Penang is 29s., in bond, and 27s., c.i.f. Seychelles, 36s., spot.

PEPPERMINT. — *Arvensis*: Chinese is 25s. 9d. per lb. on the spot and 25s. 6d. nominal, c.i.f. Brazilian, 14s., spot and 13s., c.i.f. Formosan, 18s. 3d., spot; new-crop for June–July shipment, 17s., c.i.f. Italian "Mitcham"-type oil on spot is from 45s. to 50s.; American, 27s. 6d. to 55s., as to origin.

PETITGRAIN. — Paraguay is offered at 20s. 6d. per lb. on the spot; 20s., c.i.f.

PIMENTO. — English-distilled berry is 180s. per lb.; imported, 75s. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE. — *Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 25s.; Siberian (*abietis*), 12s. 6d.

Synthetics and Isolates

Prices per lb. for minimum 1-cwt. lots unless otherwise stated.

ACETOPHENONE. — 5s. AMYL ACETATE. — 3s. 6d. AMYL BENZOATE. — 6s. 9d. AMYL BUTYRATE. — 4s. 6d. AMYL PHENYLACETATE. — 9s. 6d. AMYL SALICYLATE. — 5s. 3d. AMYL CINNAMIC ALDEHYDE. — 10s. to 10s. 6d. ANETHOLE. — 20s. to 24s. ANISIC ALCOHOL. — 27s. 6d. to 45s. ANISIC ALDEHYDE (ex paracresol). — 19s. to 24s.; (ex anethol). — 40s.

BENZALDEHYDE. — 5s. BENZOPHENONE. — 8s. 6d. BENZYL ALCOHOL (perfumers'). — 3s. 6d. BENZYL ACETATE. — 3s. 9d. BENZYL BENZOATE (perfumers'). — 5s. BENZYL CINNAMATE. — 21s. BENZYL ISOEUGENOL. — 45s. to 65s. BENZYL PROPIONATE. — 5s. 6d. BENZYL SALICYLATE. — 5s. 6d. to 6s. 9d. BENZYLIDENE ACETONE. — 11s. BORNEOL. — 17s. 6d. BORNYL ACETATE. — 3s. 9d. BROMSTYROL. — 33s. BUTYRIC ACID. — 4s. 6d.

CINEOL. — 12s. 6d. CINNAMIC ALCOHOL. — 15s. to 17s. 6d. CINNAMIC ALDEHYDE. — 6s. CINNAMYL ACETATE. — 25s. CINNAMYL BUTYRATE. — 35s. CITRAL 90-92%. — 19s. 6d. to 24s. CITRONELLAL. — 16s. to 21s. CITRONELLOL (ex Ceylon). — 27s. 6d.; (ex Java). — 23s. 6d. COUMARIN. — 19s. 6d.

DIETHYL PHTHALATE. — 2s. 9d. DIMETHYL BENZYL CARBINOL. — 47s. 6d. DIMETHYL HYDROQUINONE. — 18s. 6d. DIPHENYL METHANE. — 5s. 6d. DIPHENYL OXIDE. — 4s.

ETHYL BENZOATE. — 5s. 9d. ETHYL BUTYRATE. — 4s. 9d. ETHYL CINNAMATE. — 14s. 6d. ETHYL OENANTHALE. — 17s. 6d. ETHYL SALICYLATE. — 5s. ETHYL VANILLIN. — 48s. EUGENOL. — 19s. to 21s.

GERANIOL (ex Ceylon). — 28s. 6d.; (ex Java). — 22s.; (ex Palmarosa). — 110s. GERANYL ACETATE (ex Java). — 24s. 6d. to 27s. 6d.

HELIOTROPINE. — 20s. HYDROXYCITRONELLAL (perfumers'). — 35s. to 40s.; (for soaps). — 32s. 6d.

INDOLE. — 150s. IONONE 100%. — 30s. ISOBUTYL ACETATE. — 4s. 6d. ISOBUTYL BENZOATE. — 6s. 6d. ISOBUTYL SALICYLATE. — 6s. to 9s. ISOEUGENOL. — 24s. 6d.

LINALOL. — 38s. 6d. to 40s. LINALYL ACETATE. — 40s. to 45s.

METHYL ACETOPHENONE. — 10s. 6d. METHYL ANTHRANILATE. — 18s. 6d. METHYL BENZOATE. — 5s. 6d. to 6s. 3d. METHYL CINNAMATE. — 17s. 6d. METHYL PHENYLACETATE. — 7s. METHYL HEPTENE CARBONATE. — 21s. METHYL IONONE 100%. — 34s. 6d. MUSK KETONE. — 32s. 6d. MUSK XYLOL. — 7s. 6d. MUSTARD OIL (art.). — 19s. to 20s.

NEROLIN BROMELIA. — 8s. NEROLIN YARA YARA. — 8s.

PARACRESYL ACETATE. — 12s. 6d. PARACRESYL PHENYLACETATE. — 12s. 6d. to 22s. PHENYLACETALDEHYDE. — 65s. PHENYLACETIC ACID. — 5s. 8d. PHENYLETHYL ALCOHOL. — 10s. 9d. to 12s. 6d. PHENYLPROPYL ALCOHOL. — 16s. 6d. to 21s.

RHODINOL. — 185s. to 245s.

SAFROLE. — 6s. SANTALOL. — 180s. STYROL-YLENE ACETATE. — 10s. 6d. to 12s. 6d.

TERPINEOL (perfumers'). — 3s. 9d. TERPENEOL ACETATE. — 4s. 9d. to 5s. 3d.

VETIVEROL. — 260s. to 275s. VETIVERYL ACETATE. — 195s. to 240s.

UNITED STATES REPORT

NEW YORK, FEBRUARY 5: SANTONIN was reduced \$2 to \$32.50 per lb. Jamaican SARSAPARILLA dipped five cents to 50 cents a lb. VANILLA BEANS were higher, with Bourbons \$9.25 a lb., up 25 cents. Higher among ESSENTIAL OILS was CARAWAY at \$3.00 a lb. (up 25 cents). Lower were LINALOOL at \$3.05 a lb. (down 30 cents); LINALYL ACETATE at \$3.20 (down 30 cents); and EUCALYPTOL at \$1.15 (down ten cents); BOIS DE ROSE oil at \$2.15 was down 15 cents; Bourbon GERANIUM at \$15.00 (down \$1) and Algerian GERANIUM, \$14.50 (down 50 cents).

U.S. STOCKPILE POLICY

Fillip for drug makers ?

THE Office of Defence Mobilisation (ODM) has been advised to overhaul its policies for acquiring strategic materials for the United States national stockpile. Instead of acquiring raw materials from both United States and foreign sources, as was done under policies established during the Korean war, the emphasis should be shifted to buying finished items, ODM was told. Supplies vital for survival, relief and rehabilitation such as water, food, shelter and medical supplies, should be available if a nuclear attack occurred. The recommendations were made by a twelve-man civilian committee headed by Mr. Holman D. Pettibone. The committee said the 7,350 million dollars' worth of strategic and critical materials now held in government inventories, plus production in the U.S. and readily accessible foreign areas, with a few relatively minor exceptions, "could easily support an expanded defence industry for several years." Among the recommendations made by the committee was one that producers and distributors of medical, pharmaceutical and hospital supplies and equipment be encouraged to carry increased inventories in dispersed locations. The committee realise that the timing and manner of stockpile purchases and sales can have far-reaching impacts on domestic and foreign markets and on foreign relations but while those factors must not be overlooked in management of the stockpile, emphasis should always be on national defence and survival needs. "The stockpile should not be used in attempts to regulate the nation's economy."

WORLD TRADE

Freight Charges in West Germany.—

Freight charges on the West German State-owned railways went up by an average of 8.5 per cent. on February 1.

New Chemical Laboratory in India.—

A new manufacturing laboratory and branch office of Parke, Davis & Co., is to be constructed in Bombay according to Mr. W. R. Jeeves (vice-president of the company). He said the new structure would have 100,000 square feet of floor space on a 12-acre site.

U.S. Tariff Laws.—President Eisenhower asked Congress on January 31 to extend the Government's tariff-cutting powers for another five years. Urging passage of the bill the President said "under this programme sound two-way trade can be further developed to assure to our industries widening opportunities for participation in world markets and to provide foreign nations the opportunity to earn the dollars to pay for the goods we sell." The administrations executive authority to negotiate tariff reductions with other countries is due to expire on June 30. In asking for a five-year extension, Mr. Eisenhower told Congress there was a special reason for choosing this period. The six-nation European Economic Community would be moving towards a common market with a common tariff on imports from the rest of the world.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," January 22

For all goods (3)

Device, 768,208, by Veb Farbenfabrik Wolfen, Wolfen, Bitterfeld, Germany. **PURETTA**, 771,029, by Hauschemikalien G.m.b.H., Ingelheim-on-Rhine, Germany.

For detergents (not for use in industrial or manufacturing processes) (3)

Device with words **COOLI-COOLI**, 770,462, by Chalk Products, Ltd., London, W.1.

For soaps, perfumes, non-medicated toilet preparations and cosmetic preparations (3)

MINERS TOP TEN, 767,590, by Henry C. Miner, Ltd., Surbiton, Surrey.

For soaps, perfumes, non-medicated toilet preparations, eau de Cologne, essential oils, cosmetics, hair lotions and dentifrices (3)

TOSCARA, 770,810, by Eau de Cologne & Parfümerie-Fabrik, Glockengasse No. 4711, Cologne, Germany.

For substances for laundry use; cleaning, polishing, scouring and abrasive preparations; soaps; and detergents (not for use in industrial or manufacturing purposes) (3)

BLEEP, 770,829, by R. Sloan & Co., Ltd., Liverpool.

For infants' foods, being milk products, all for sale in Aden, Bahrain, Basutoland, Bechuanaland, British Honduras, Falkland Islands, Gibraltar, Ghana, Grenada, Guernsey, Jersey, Kenya, Federation of Malaya, Northern Rhodesia, St. Helena, Sarawak, St. Vincent, the British West Indies, Singapore, Southern Rhodesia, Somaliland, Swaziland, Tanganyika, Tonga and Uganda (5)

Device with words **BONNY BABY**, 760,999, by Coöperatieve Condensfabriek "Gelderland-overijssel" G.A., Deventer, Holland.

For pharmaceutical, veterinary and sanitary substances, medical and surgical plasters, materials prepared for bandaging, disinfectants, and preparations for killing weeds and destroying vermin (5)

CALCENUM, 765,332, by Union Chimique Belge, S.A., Brussels, Belgium.

For antibiotics (5)

PENTASCODIN, 767,535, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For all goods (5)

Device, 768,209, by Veb Farbenfabrik Wolfen, Wolfen, Germany. **MEPEDOXIN**, 770,844, by The British Drug Houses, Ltd., London, N.1. **PECTOGEN**, 770,886, by Genatosan, Ltd., Loughborough, Leics. **ALEVERGEN**, 770,895, by Imperial Chemical Industries, Ltd., London, S.W.1. **PELLIFORM**, 770,888, by C. H. Boehringer Sohn, Ingelheim-on-Rhine, Germany.

For pharmaceutical and veterinary preparations (5)

CARTRAX, 769,876, by Chas. Pfizer & Co., Inc., New York, U.S.A.

For pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging, disinfectants and antiseptics (5)

DELTA-BUTAZOLIDIN, 769,074, by J. R. Geigy S.A., Basle, Switzerland.

For pharmaceutical preparations containing bromine or compounds (5)

BROMOVALINE, 770,126, by Victoria Laboratories, Ltd., London, W.C.2.

For vulnary sponges for surgical use (5)

GELCOSPONGE, 770,780, by Consolidated Chemicals, Ltd., Wrexham, Denbighs.

For pharmaceutical preparations and substances for human and veterinary use (5)

RENGASIL, 770,826, by CIBA, Ltd., Basle, Switzerland.

For stands for photographic, cinematographic and optical apparatus and instruments (9)

MULTIPODE, 770,969, by André Victor Léon Clément Debric, Paris, France.

For holders for photographic films (9)

GRAFMATIC, 771,044, by Graflex, Inc., Rochester, New York, U.S.A.

For suture material (10)

ARLIN, 771,098, by Armour & Co., Ltd., London, E.C.1.

From the "Trade Marks Journal," January 29

For fertilisers for sale in England, Scotland and Wales (1)

FISONS LIQUID GREEN, 747,308, by Fisons, Ltd., Felixstowe, Suffolk.

For chemical products for retarding the growth of grass (1)

REGULOX, 771,379, by Burt, Boulton & Haywood, Ltd., London, W.C.2.

For essential oil residues (not for food) (3)

RESILENE, 767,661, by W. J. Bush & Co., Ltd., London, E.8.

For hair lotions, hair oils, shampoos and preparations for use in waving and setting the hair (3)

NEUTRAMOUSSE, 767,579, by Perma, S.A., Paris, France.

For toilet preparations for the hair (3)

ACTORENE, 769,553, by Eugene, Ltd., London, W.1.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3)

Device with words **ABOU HANDA**, 769,390, by Parfumerie J. Lamotte, S.A., Marseille, France.

For preparations for use in waving and setting the hair (3)

SEVENTH WAVE, 770,471, by Boots Pure Drug Co., Ltd., Nottingham.

For cosmetics, non-medicated toilet preparations, perfumes, soaps and nail polish removing preparations (3)

FLASHPOINT, 770,493, by Gala of London, Ltd., London, W.1.

For preparations for use in the permanent waving of the hair (3)

SIMPLON, B770,525, by Greenford Chemicals, Ltd., Greenford, Middlesex.

For cleaning and polishing preparations (3)

FIBRON, 771,175, by Ronuk, Ltd., Portslade, nr. Brighton, Sussex.

For all goods (5)

VETRETTES, 764,443, **QUADRIGEN**, 764,662, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex. **TIMESPAN**, 769,325, by Roche Products, Ltd., Welwyn Garden City, Herts.

For antibiotics (5)

HUMATIN, 766,547, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

For pharmaceutical products (5)

ANDROMEXINOL, 770,992, by Nurace Surgical & Chemical Co., Hull, Yorks.

For vitamin preparations for pharmaceutical purposes (5)

VIRIBA, 771,204, by Modern Health Products, Ltd., Chessington, Surrey.

WILLS

MR. F. J. BOARDMAN, M.P.S., 82 Sale Lane, Tyldesley, Lancs, left £4,690 (£4,621 net).

MR. P. G. CURTIS, M.P.S., 52 Victoria Place, Brightlingsca, Essex, left £19,635 (£19,135 net).

MR. H. ENGLAND, M.P.S., 30 Leeds Road, Harrogate, Yorks, left £43,849 (£43,581 net).

MR. T. J. EVANS, F.P.S., Whitley House, Wood Street, Guildford, Surrey, left £44,739 (£43,053 net).

MR. F. C. HANBURY, F.P.S., Westfield, Hoddeston, Herts (a former chairman of Allen & Hanburys, Ltd., Ware Herts), left £38,022 (£37,214 net).

MR. R. F. KENNY, M.P.S., 19 Marlowe Road, Wallasey, Cheshire, left £4,476 (£3,961 net).

MR. G. H. MACK, M.P.S., 62 Brockley Rise, Honor Oak Park, London, left £7,871 (£5,356 net).

MR. A. I. OTTER, M.P.S., Darwin, Skegby Lane, Mansfield, Notts, left £3,229 (£2,178 net).

MR. C. H. SIDDLE, M.P.S., 138 Holders Hill Road, N.W.7, left £3,614 (£3,565 net).

MR. J. H. STEPHENSON, M.P.S., 2 Castle Street, Hinckley, Leics, left £41,107 (£40,963 net).

MR. S. TATLOW, M.P.S., 53 Market Street, Eckington, Derbyshire, left £4,946 (£4,617 net).

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for January was 205.1

Cost		Item	16 oz.		4 oz.		1 oz.		1 dr.	
d.	per		s.	d.	s.	d.	s.	d.	s.	d.
28	500 gm.	Acid. boric. cryst. ...	3	2	0	11	0	3½	—	—
28	500 gm.	Acid. boric. pulv. subtil. ...	3	2	0	11	0	3½	—	—
39	500 gm.	Acid. oxalic. coml. P.I. (8)	4	5	1	3	0	4½	—	—
87	500 gm.	Aloe Capensis pulv. ...	—	—	2	10	0	10	0	1½
23	500 gm.	Amylum (wheat) ...	2	7	0	9	0	2½	—	—
60	500 gm.	Apii grav. sem. (celery) ...	—	—	1	11	0	7	0	1
88	½ gm.	Apomorph. hydrochlor. S. 1 (4)	per	gr.	2	0	5	gr.	9	9
51	500 gm.	Applicat. benzyl. benz., B.P.C.	—	—	1	8	0	6	0	1
49	10 gm.	Argentoproteinas ...	per	gr.	—	—	0	1	2	6
24	500 gm.	Borax ...	2	9	0	9½	0	3	—	—
120	500 gm.	Camphora natural ...	—	—	3	10	1	2	0	2
42	500 gm.	Carum ...	—	—	1	4	0	5	0	1
135	500 gm.	Cera alba in massa ...	—	—	4	4	1	4	0	2
129	500 gm.	Cera flav. (in massa) exot. ...	—	—	4	2	1	3	0	2
45	100 gm.	Cinnamomi pulvis opt. ...	—	—	—	—	1	11	0	3½
216	5 gm.	Codeina, B.P.C. S. 1 (4)	per	gr.	—	—	0	5½	—	—
135	250 gm.	Conspers. hydrarg. subchlor. co., B.P.C. ...	—	—	—	—	2	8	0	4½
234	5 gm.	Diamorphin. hydrochlor. D.D.	per	gr.	—	—	0	8	—	—
138	500 mils	Elixir aethylmorph. et terpin., B.P.C. ... P.I. (13)	—	—	4	5	1	4	0	2½
87	500 mils	Emuls. menth. pip. ...	—	—	2	10	0	10	0	1½
51	25 gm.	Ergota praeparata S. 1 (5)	—	—	—	—	—	—	1	1
63	100 mils	Ext. ergotae liq., B.P.C. S. 1 (5)	—	—	—	—	2	8	0	4½
65	100 mils	Ext. taraxaci liq. ...	—	—	—	—	2	9	0	4½
195	100 gm.	Ferri et quinin. citras ...	—	—	—	—	—	—	1	2
111	500 gm.	Glycer. acid. tannic. ...	—	—	4	8	1	5	0	2½
51	4 oz.	Ichthammol ...	—	—	—	—	1	11	0	3
140	500 mils	Inf. buchu conc., B.P.C. ...	—	—	4	6	1	4	0	2½
360	2 litres	Linct. codein., B.P.C. P.I. (13)	—	—	2	11	0	10½	0	1½
81	500 mils	Linct. diamorph., B.P.C. D.D.	—	—	2	7	0	9½	0	1½
78	100 mils	Liq. morph. hydrochlor. D.D.	—	—	—	—	3	4	0	5½
90	500 mils	Liq. quin. ammon., B.P.C. ...	—	—	2	11	0	10½	0	1½
405	10 gm.	Morphin. hydrochlor. D.D.	per	gr.	—	—	0	7	—	—
405	10 gm.	Morphin. sulphas ... D.D.	per	gr.	—	—	0	7	—	—
23	500 gm.	Naphthalenum coml. flake ...	2	7	0	9	0	2½	—	—
252	1 gal.	Ol. arachis ...	2	10	0	9½	0	3	—	—
34	500 gm.	Ol. coicis, B.P.C., '49 ...	—	—	1	1	0	4	—	—
72	25 gm.	Ol. lavand. Gall. ...	—	—	—	—	—	—	1	4
65	25 gm.	Ol. pini pumilionis ...	—	—	—	—	—	—	1	2
63	2 pints	Ol. terebinth. coml. ...	3	2	0	11	0	3½	—	—
174	500 gm.	Ol. theobromatis ...	—	—	5	7	1	8	0	3
41	25 gm.	Pig. podoph., B.P.C. ...	—	—	—	—	5	10	0	10
95	250 gm.	Pimentae pulv. ...	—	—	—	—	1	10	0	3
34	100 gm.	Piper. nigr. pulv. ...	—	—	—	—	1	5	0	2½
84	500 gm.	Potassa caustica (stick) P.II. (15)	—	—	2	8	0	10	0	1½
60	500 gm.	Potassii carbonas, B.P.C. '49 ...	—	—	1	11	0	7	0	1
42	500 gm.	Potassii metabisulph. ...	—	—	1	4	0	5	0	1
63	500 gm.	Potassii quadroxalas, B.P.C. '34 P.II. (8)	—	—	2	0	0	7½	0	1
75	25 gm.	Quinin. hydrobromidum ...	—	—	—	—	—	—	1	7
84	500 gm.	Succus glycyrrh. (sticks) ...	—	—	2	8	0	10	0	1½
21	500 gm.	Sulphur nigrum ...	2	5	0	8	0	2½	—	—
132	25 gm.	Strychnin. pulv. ... S. 1 (4)	per	gr.	—	—	0	1	2	8
37	25 gm.	Sulphaguanadin. S. 1 R only	—	—	—	—	5	3	0	9
87	500 mils	Syr. creosoti co., B.P.C. '49 ...	—	—	2	10	0	10	0	1½
212	2 litres	Syr. glycerophosph. co., B.P.C. P.I. (9 and 13)	—	—	1	8	0	6	0	1
75	500 mils	Syr. limonis ...	—	—	2	5	0	8½	0	1
101	500 mils	Tinct. chlorof. et morph., B.P.C. P.I. (9)	—	—	3	3	1	0	0	1½
128	500 mils	Tinct. ipecacuanhae ...	—	—	4	1	1	3	0	2
66	500 gm.	Ung. zinci et ol. ricini ...	—	—	2	1	0	7½	0	1

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 10

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Norwood Technical College, Knight's Hill, London, S.E.27, at 7 p.m. Dr. J. Green on "Recent Advances in the Chemistry and Function of the Vitamins."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon hotel, at 7.30 p.m. Members' evening.

Tuesday, February 11

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Falstaff hotel, Canterbury, at 8 p.m. Mr. W. R. Mowll (coroner, East Kent) on "The Work of a Coroner."

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. A. Aldington (a member of the Society's Council) on "Photo-dealing Today and in the Future."

GUILDFORD BRANCH, PHARMACEUTICAL SOCIETY, Queen of Hearts, West Street, Farnham, at 7.30 p.m. Discussion evening.

LONDON CHEMISTS' GOLFING SOCIETY, Hendon Hall hotel, London, N.W.4, at 7 p.m. Annual dinner and dance.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Sir John Cass College, Jewry Street, London, E.C.3, at 6.30 p.m. Professor C. K. Ingold on "An Organic-chemical Contribution to the Inorganic Chemistry of Nitrous Acid."

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, North Stafford hotel, Stoke-on-Trent, at 7.30 p.m. Mr. C. D. Grimwade on "Astronomy."

PRESTON PHARMACISTS' ASSOCIATION, County Club, Winckley Square, at 7.45 p.m. Talk by Mr. J. A. Speed (clerk to Lancashire Executive Council).

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, New Cross inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Talk on "The Work of Customs and Excise Officers."

Wednesday, February 12

BRIGHTON AND HOVE ASSOCIATION AND BRANCH, Visit to School of Pharmacy, London University; theatre visit. Coach leaves Hove town hall at 2 p.m.

ENFIELD CHEMISTS' ASSOCIATION, Firs hall, Winchmore Hill, at 8 p.m. Supper-dance.

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Glasgow, C.2, at 7.45 p.m. Students' night.

LIVERPOOL SCHOOL OF PHARMACY, OLD STUDENTS' ASSOCIATION, Exchange hotel, Liverpool. Dinner-dance to honour the eightieth birthday of Mr. H. Humphreys-Jones.

LONDON SECTION, BRITISH ASSOCIATION OF CHEMISTS, Wellcome Foundation, Euston Road, London, N.1, at 7 p.m. Assistant Divisional Officer Bennett (London Fire Brigade) on "Fire Prevention."

SUNDERLAND TECHNICAL COLLEGE, PHARMACY STUDENTS' ASSOCIATION, Bay hotel, Whitburn, at 7.30 p.m. Annual dinner and dance.

TUNBRIDGE WELLS PHARMACEUTICAL ASSOCIATION, Spa hotel, at 8.30 p.m. Annual buffet-dance. Ticket (price 10s. 6d.) from Mr. D. Hinchliffe, 2 High Street, Rusthall, Tunbridge Wells.

Thursday, February 13

BOURNEMOUTH BRANCH, NATIONAL PHARMACEUTICAL UNION, Grand hotel, at 7.45 p.m. Mr. H. W. Tomski on "Economics of Pharmacy—With Reference to Bournemouth."

CHEMICAL SOCIETY, Imperial College of Science and Technology, London, S.W.7, at 7.30 p.m. Tilden lecture: Professor B. Lythgoe on "Some Recent Advances in the Chemistry of the Vitamins D."

HULL CHEMISTS' ASSOCIATION AND BRANCH, New York ballroom, at 8 p.m. Supper-dance.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metro-

Cost		TABLETS	Retail (in container)	
d.	per		25	100
732	1,000	Acetanilid. co. c. codein., B.P.C. '49. S. 1 (5)	s. d.	s. d.
328	1,000	Digoxin. 0.25-mgm. ...	3	3
76	100	Quinin. bisulphat. gr. 5 ...	1	10
			5	8
			3	5
			11	1

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

polc hotel, at 7.45 p.m. Dr. J. Broadbent on "Nigerian Native Drugs, Medicines and Witch Doctors."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, North-west Kent College of Technology, Miskin Road, Dartford, at 7.30 p.m. Dr. G. B. Stanford on "The Use of Film in Scientific and Medical Research."

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, Imperial College of Science and Technology, Prince Consort Road, London, S.W.7, at 6.30 p.m. Papers on "Enzymic Degradation of Carbohydrates."

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

February 16-22

LONDON

Airwick (2), Alka-Seltzer, Amami wave set (4). Anadin (2), Aspro (7), Beecham's pills (4) powders (4), Bristow's shampoo (3), Brylcreem (5), Cadum soap, California syrup of figs, Christy's liquid lanoline (4), Colgate dental and brushless shaving creams, Cutex hand cream, Disprin.

Eucryl tooth-powder, Euthymol tooth-paste (2), Fynnon salt, Galloway's cough syrup, Germolene (3), Gibbs' S.R. tooth-paste (7), Gillette razors and blades (2), Gon, Horlicks (4), Iron Jelloids (2), Jif plastic lemons (2), Kleenex tissues (6).

Lemskin (3), Loxene (3), Macleans tooth-paste (4) indigestion remedies, Macprin (2), Mac throat sweets (2), Max Factor preparations (3), Milk of Magnesia preparations (3), Moorland indigestion tablets, Nulon (4), Opas tablets, Optone eye drops (2), Owbridge's lung tonic and pastilles, Pacquins, Palmolive soap, Penetrol inhalant, Persomnia tablets, Phensic (5), Phosferine (3), Phyllosan (3), Potter's catarrh pastilles, Punch and Judy tooth-paste (2).

Savlon barrier cream (2), Silvikrin hair cream (3), Sky tooth-paste (5), Spratt's mixed ovals (7), Supavite (3), Suregrip rubber gloves (2), Thru, Veno's cough mixture (4), Vosene (3), Vykinin, Water Lilies shampoo (3), Williams Electric shave, Yeast-Vite, Zonk aerosols, Zubes pastilles (2).

MIDLAND

Airwick (2), Alka-Seltzer, Amami wave set (4). Anadin (3), Angiers junior aspirin (3), Aspro (7), Beecham's pills (5) powders (5), Bristow's shampoo (2), Brylcreem (4), Cadum soap, California syrup of figs (2), Cogene, Colgate dental cream, Cutex hand cream, Delsey toilet tissue (3), Dentosine (2), Disprin (3).

E-no's Fruit Salt (2), Eucryl tooth-powder (2), Euthymol tooth-paste (2), Galloway's cough syrup (4), Germolene (3), Gibbs' S.R. tooth-paste (12), Gillette razors and blades (2), Gon (2), Horlicks (5), Iron Jelloids (2), Jif plastic lemons (3), Kleenex tissues (5).

Lobelline (2), Loxene (3), Macleans indigestion remedies (3) tooth-paste (3), Mac throat sweets, Max Factor preparations (2), Milk of Magnesia preparations (3), Moorland indigestion tablets, Nemakol, Nulon (3), Opas tablets, Owbridge's lung tonic and pastilles, Pacquins, Palmolive soap, Penetrol inhalant, Pepsodent tooth-paste, Phensic (7), Phosferine (3), Phyllosan (3), Potter's catarrh pastilles, Punch and Judy tooth-paste.

Safada cream shampoo, Sanatogen, Scott's emulsion, Silvikrin hair cream (2), Steradent, Supavite (2), Thru, Valderma (3), Veno's cough mixture (4), Vosene (2), Vykinin, Water Lilies shampoo (2), Williams Electric shave, Yeast-Vite (2), Zoflora, Zubes pastilles (2).

NORTH

Airwick (3), Alka-Seltzer (2), Amami wave set (4), Anadin (3), Aspro (7), Beecham's pills (5) powders (4), Bristow's shampoo (3), Brylcreem (4), Cadum soap, California syrup of figs,

Cephos (4), Colgate dental cream, Cutex hand cream, Dentosine (2), Disprin (2).

Eucryl tooth-powder (2), Euthymol tooth-paste (2), Fynnon salt, Galloway's cough syrup (4), Germolene (3), Gibbs' S.R. tooth-paste (10), Gillette razors and blades (2), Gon, Hiltone (4), Horlicks (3), Jif plastic lemons (2), Kleenex tissues (6).

Lloyd's adrenaline cream (2), Loxene (2), Macleans indigestion remedies (3) tooth-paste (3), Mac throat sweets, Max Factor preparations (3), Milk of Magnesia preparations (2), Moorland indigestion tablets, Nulon (4), Opas tablets, Owbridge's lung tonic and pastilles, Pacquins, Palmolive soap, Penetrol inhalant, Persomnia tablets, Phensic (7), Phosferine (3), Phyllosan (3), Potter's catarrh pastilles, Pure Silvikrin.

Safada cream shampoo, Sanatogen, Silvikrin hair cream and shampoo, Supavite (3), Thermogene (4), Thru, Veno's cough mixture (5), Vosene (3), Vykinin, Yeast-Vite (2), Zoflora, Zubes pastilles (2).

SCOTLAND

Airwick (2), Alka-Seltzer, Amami wave set (3), Anadin (3), Askit (10), Aspro (8), Beecham's pills (4) powders (13), Brylcreem (4), Cadum soap, California syrup of figs, Colgate dental cream, Disprin.

E-no's Fruit Salt (3), Eucryl tooth-powder (5), Euthymol tooth-paste (2), Frozocline and Frozolavender (4), Fynnon salt, Germolene (2), Gillette razors and blades (2), Gon, Horlicks (3), Jif plastic lemons (2), Kleenex tissues (4),

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; ‡ = Tax 60 per cent.; † = Tax 90 per cent.

ABBOIT LABORATORIES, LTD. (from February 10)

	30	100	I.R.P.
Dayamin capsules	30	100	12 11 R 38 6 R

WILLIAM FREEMAN & CO., LTD.
Bathing caps (tax 10 per cent.):

	Each	4	6	R
Suba Seal	2 9½	4	6	R
Sea Maid	2 2½	3	6	R
Chic	1 5	2	3	R
Sea Child	1 8½	2	9	R
Sea Diver	1 7	2	6	R
IC.42, teat for wide-neck feeding bottle	7 4	11	A	
5.A.5, feeding bottle cover and measure	9 0	1	1½	A
5.A.4, measuring jug with handle 10 oz.	12 8	1	9	A

KODAK, LTD.

Kodak Brownie 127 camera†	29	2	A
Panatomic-X film‡			
No. 127	2	11	R
Nos. 120, 627	3	4	R
films for miniature cameras†:—			
Panatomic-X No. 135			
36-exposure cassette	8	3	R
No. 935 1-6 metres	4	8	R
35 mm. 5 metres	12	8	R
17 metres	38	5	R

SMITH & NEPHEW, LTD.

Pycazine tablets				
50 mgm.	500	105	0	13 2 R
	1,000	192	0	24 0 R
100 mgm.	100	46	0	5 9 R
	500	192	0	24 0 R

SMITH, KLINE & FRENCH LABORATORIES, LTD. (from February 10)

Eskacillin V	87	4	R
Eskacillin 100	76	8	R
Eskacillin 200	97	4	R
Eskacillin 100 Sulpha	100	0	R
Eskacillin 200 Sulpha	107	4	R
	Each		
Sulfex	8 oz.	21	5 R

JAMES WOOLLEY SONS & CO., LTD. (from February 10)

Phenoda solution*	5 oz.	15	0	2 4 A
	10 oz.	23	0	3 6 A

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

CURACHO CO. (from February 1)

Curacho waters oil-less em-brocation*	3 oz.	18	6	2 6 A
veterinary*	3 oz.	14	6	2 0 A
massage cream*				
2 oz. (new size)	18	6	2	6
(4-oz. jar discontinued)				

Lantigen 'B' oral vaccine, Loxene (4), Macleans indigestion remedies (3) tooth-paste (3), Mac throat sweets, Max Factor preparations (4), Milk of Magnesia preparations (3), Milpar (3), Moorland indigestion tablets (2), Opas tablets, Pacquins (2), Palmolive soap, Penetrol inhalant, Persomnia tablets, Phensic (4).

Silvikrin shampoo, Skin-Glo (2), Supavite (3), Thru, Veno's cough mixture (4), Vosene (3), Vykinin, Water Lilies shampoo (2), Zubes pastilles (2).

WALES

Airwick (2), Alka-Seltzer (2), Amami wave set (3), Anadin (3), Aspro (7), Brylcreem (3), Cadum soap, California syrup of figs (2), Colgate dental cream.

E-no's Fruit Salt (3), Euthymol tooth-paste (2), Fynnon salt (2), Gillette razors and blades (2), Gon, Horlicks (3), Jif plastic lemons (2), Kleenex tissues.

Lantigen 'B' oral vaccine, Loxene (3), Macleans indigestion remedies (3) tooth-paste (3), Macprin (2), Mac throat sweets, Max Factor preparations (3), Moorland indigestion tablets, Opas tablets, Pacquins (2), Palmolive soap, Penetrol inhalant, Pure Silvikrin.

Radian 'B' Safada cream shampoo, Silvikrin hair cream (2), Snowfire waveset, Spratt's mixed ovals (6), Supavite (4), Water Lilies shampoo (3), Yeast-Vite (2), Zubes pastilles.

Other products which are currently being advertised (but for which no station has been notified) include: Barnet combs, French's bird foods, Pilco vibratory massager, 1001 cleaner.

DELETIONS FROM THE LIST

M. BEETHAM & SON Larola skin lotion; Beetham's glycerine and cucumber.

A. L. SIMPKIN & CO., LTD. Vitalised stomach powder; Rhumuv capsules.

NEW PRODUCTS AND PACKS

CARNEGIES OF WELWYN, LTD.

	Each	2	3	0
Rhiomex tablets	25	2	0	3 0
	50	3	3	4 10½
	100	4	6	6 9
elixir	4½ oz.	4	3	6 4½
dispensing pack	2 litres	48	6	
Vandid* (sole distributors: MOORE, LTD.)				
tablets	20 mgm.	5	0	9 0
dispensing pack	250	50	0	
ampoules				
5 per cent. 5 mls 6	20	0	36	9
oral solution				
5 per cent. 15 mls	8	9	15	9

DISTILLERS CO. (BIOCHEMICALS), LTD.

Distaquaine V-K tablets				
125 mgm.	12	5	10	8 9
	500	197	4	296 0

FUMITE DIVISION, WAECO, LTD.

Fumite TCNB	size 3	2	0
-------------	--------	---	---

GENATOSAN, LTD.

Sanatogen* "economy" size	191	0	26 0
---------------------------	-----	---	------

D. & W. GIBBS, LTD.

Gibbs' dentifrice (reformulated)*	tin	1	1
-----------------------------------	-----	---	---

LINCOLN HAIR PRODUCTS, LTD.

Linco-Lin hand cream†			
"hand" pack	57	0	6 6

MERCK SHARP & DOHME, LTD.

Hydrodyne tablets	Each		
dispensing pack	100	28	0 42 0

MOORE MEDICINAL PRODUCTS, LTD.

Strix tablets	tube 10	1	9
---------------	---------	---	---

H. R. NAPP, LTD.

Carmerin tablets*	50	7	8
	300	34	9

PARKE DAVIS & CO., LTD.

Sytro* 4 fl. oz.	6	0
16 fl. oz.	21	7½
80 fl. oz.	90	0

HELENA RUBINSTEIN, LTD.

Silk face powder†	refill†	11	6
		8	3
Silk minute make-up†	refill†	10	11
		6	11

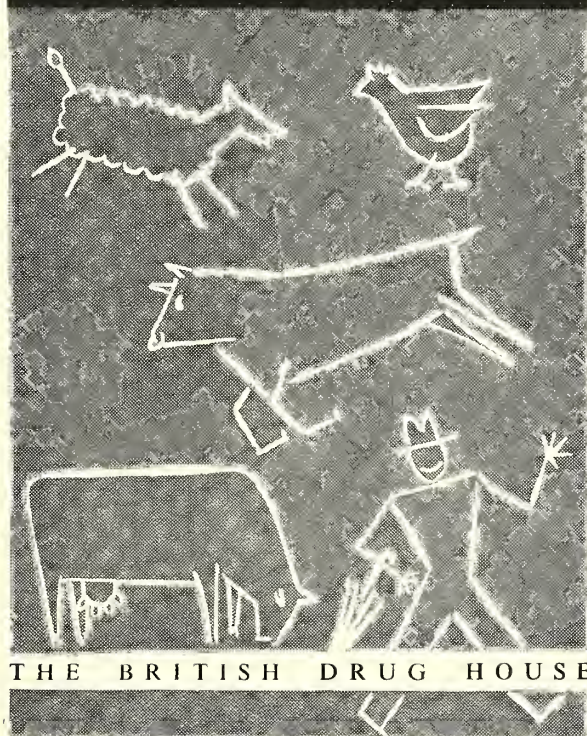
W. & F. WALKER, LTD.

Roiofresh	13	4	1 8
-----------	----	---	-----



B·D·H

**FINE
CHEMICALS
IN BULK**



ASCORBIC ACID
ACETOMENAPHTHONE
CALCIFEROL
CHOLINE SALTS
DICHLOROPHEN ('Panacide' Brand)
HEXYLRESORCINOL
MEPHENESIN
MENAPHTHONE
MERSALYL

*for pharmaceutical use
and as human and
animal food additives*

PHENOLPHTHALEIN

SEX HORMONES

Stilbæstrol
Hexæstrol
Ethisterone
Progesterone
Methyltestosterone
Testosterone Propionate

*Quality controlled.
Technical literature
available.
Competitively priced—
quotations on request.*

THE BRITISH DRUG HOUSES LTD. LONDON N.1



EADE'S PILLS & ANODYNE OINTMENT

A 100-year old reputation for efficacy in the relief of the pains of Rheumatism, Gout, Lumbago, Sciatica & Neuritis.

C.F. P.A.T.A.



EADE'S PILLS		EADE'S ANODYNE OINTMENT	
RETAIL (inc. Pur. Tax)	WHOLESALE (Plus Tax)	RETAIL (inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/11	13/6 doz.	1/11	13/6 doz.
4/-	29/- doz.	4/-	29/- doz.
6/9	49/- doz.		

EADE'S PILLS LTD. (Dept. C & D)
232 Goswell Road, London, E.C.1. Clerkenwell 3370

BROPRIN

Rapid action.
Palatable.
No Gastric
Irritation.

SOLUBLE ASPIRIN TABLETS

100's (4/9) ... 31/6 per doz. plus P.T.
50's (2/10) ... 18/- per doz. plus P.T.
20's (1/6) ... 10/- per doz. plus P.T.

Dispensing Pack of 1000 ... 15/6
N.H.S. basic
price 1/6½ per 100

ASHFIELD
BRADFORD, 7

*Brook, Parker & Co.
Ltd.*

AN ENCYCLOPÆDIA OF POISONS LAW

The CHEMIST AND DRUGGIST POISONS GUIDE

VOLUME 1
POISONS LIST & KEY

20/- (postage 1/2.)

VOLUME 2
POISONS PROVISIONS
& EXPLANATIONS

40/- (postage 1/9d.)

Compiled and co-ordinated
by **W. A. WHATMOUGH**, B.Sc., Ph.C., F.R.I.C.

No pharmacist, in whatever branch he is engaged, can afford to be without these two volumes, which together form a veritable encyclopædia of poisons law. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs regulations and enable poisons to be supplied without the slightest anxiety. Order these essential volumes NOW!

Order from your Bookseller or direct from The Publisher:
28 ESSEX ST., STRAND, LONDON, W.C.2

PRICES REDUCED

HARDWOOD APPLICATORS

100 boxes and over 3/- per box, 50 to 99 boxes 3/3 per box
under 50 boxes 4/- per box. Standard pack, 6 gross to a box

IMMEDIATE DELIVERY FROM LONDON STOCKS

TONGUE DEPRESSORS

LOWEST PRICES SINCE THE WAR

Size 6in. x ½in. x 2mm. thick. Prime Hardwood perfectly finished
Boxed 100's Minimum order 10,000.

Wholesale Houses only supplied.

ASHWOOD TIMBER INDUSTRIES LTD.

Specialists in Veneer and Plywood Products for all Trades.

IBEX HOUSE, MINORIES, LONDON, E.C.3
Tel.: ROYal 2494 Cables: ASHTIM, LONDON

TANNIC ACID AND DERIVATIVES

THE BRITISH DYEWOOD COMPANY LIMITED

19 St. VINCENT PLACE GLASGOW C.1

Think of it...



a year's guaranteed



light with Osram Tubes

The *superb quality* of Osram tubes enables us to offer a *guarantee* with every tube that it will be replaced FREE if it fails in normal service before 3,000 hours or one year whichever is the shorter. *And you still have the well-known high light figures for the first 5,000 hours use.*

It makes sense to specify —

Osram

THE GUARANTEED TUBE

for **ASTHMA** and Allied Chest Complaints, you can safely recommend—

RIDDOVYDRIN ASTHMA INHALANT

—A BIOLOGICAL PREPARATION CONTAINING VITAMIN C

RIDDOVYDRIN gives Rapid and Prolonged Relief to the most Chronic Cases.

SAMPLES AND LITERATURE FREE ON REQUEST

TOGETHER WITH

RIDDOPAG PLASTIC INHALER

WITH OR WITHOUT MASK

— UNBREAKABLE —

Gives a Fine Dry Vapour Free of Drops
MAY BE SUPPLIED ON E.C.10 FORMS

40°/° DISCOUNT ALLOWED ON ALL INHALERS,
RETAILING FROM 9/6d. TO 58/6 TAX FREE



RIDDELL PRODUCTS LTD.

HEAD OFFICE:

RIDDELL HOUSE,
10-14 DUNBRIDGE STREET, LONDON, E.2

Phone: BIS 0843-4-S (3 lines)

BRANCH OFFICE:

11 MANSFIELD CHAMBERS,
ST. ANN'S SQUARE, MANCHESTER, 2

Phone: BLA. 2894

For the busy Chemist

the new Cuticura Medicated Liquid provides a two-fold service. Just one bottle makes a brilliant and attractive display that answers the customer's enquiry "What do you recommend . . . ?" And every bottle earns the customer's thanks for a preparation that effectively soothes and relieves minor skin and scalp irritations.

Mildly medicated for the Care of the Skin, as are all the Cuticura Preparations—Soap, Ointment, Talcum Powder and Shaving Stick—now comes the new

Cuticura **Medicated Liquid**

Trade Price 23/6 dozen, selling at 3/2 bottle
Purchase Tax 30%

Kwick-dry

(HOUSEHOLD) PAPER TOWELS

In Specially Perforated Rolls for Economy at 2/-

ARE A BOON TO THE HOUSEWIFE

"I've cut down on my Big Laundry Bills"

They save work and drudgery, serving a multitude of purposes in the Kitchen. Disposable after use.

**FOR DRYING HANDS
CLEANING POTS and
PANS : DRAINING FRIED
FOOD, etc.**

Of soft, pleasing, crepe texture KWICK-DRY TOWELS are very ABSORBENT, can be squeezed like a cloth and, being actually STRONGER WHEN WET, they do not disintegrate.

Attractive Plastic Holders in various colours to match Kitchen Units supplied to retail at 4/6d. each.

This NEW Hygienic habit is catching on—encouraged by Press advertising.

Attractive Showcards available on request.

Samples and prices from

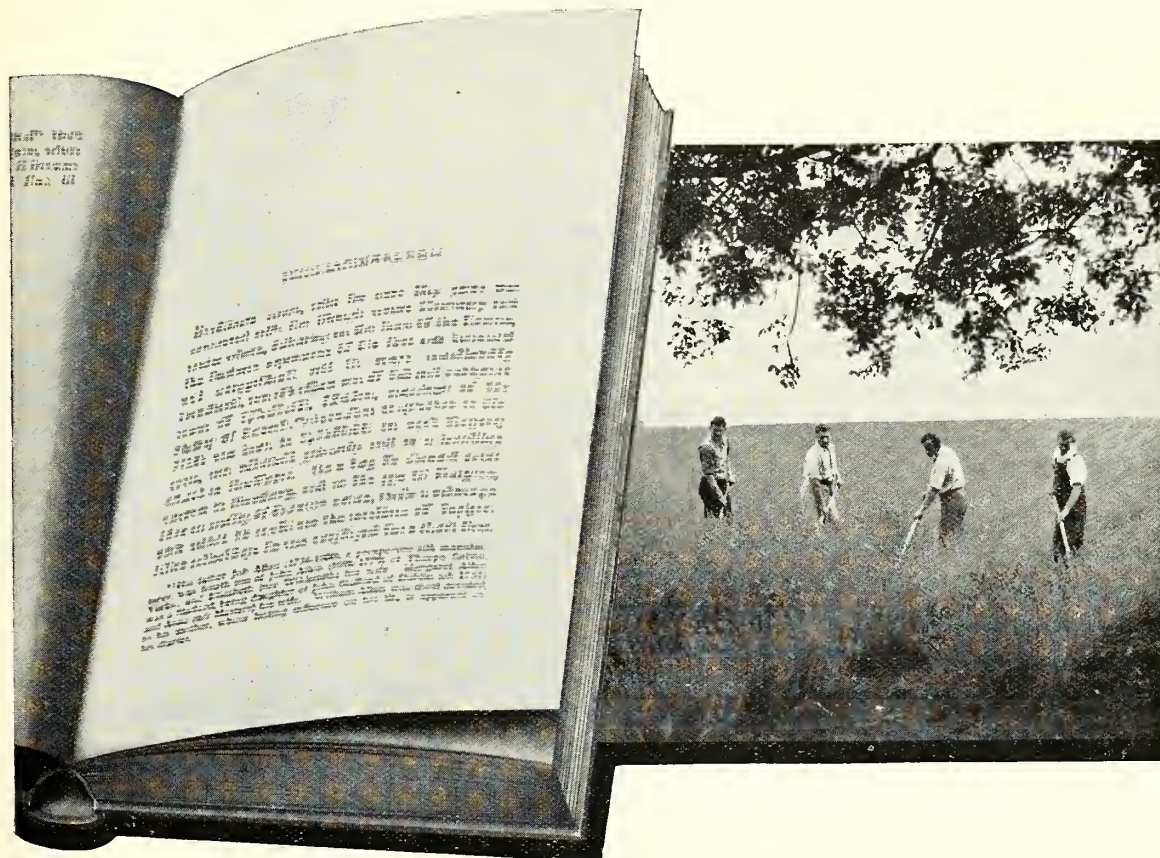
FREEDER BROTHERS PAPER MILLS
BRIMSDOWN · ENFIELD · MIDDLESEX

Telephone : HOWard 1847 (5 lines)

Grams : Sylkocrepe, Enfield



new chapters in the RANSOM story . .



The Ransom story is a *continuing* story. It had its beginnings more than a hundred years ago, and important new chapters are added with every year that passes. Who writes the Ransom story? The research teams on the Company's drug growing farms at St. Ives, always seeking new strains of medicinal plants . . . the horticulturists, always investigating new methods of cultivation . . . and the production specialists at Ransom's Hitchin factory always striving for still more efficient methods of raw-material processing. Yes, these are the men who make the Ransom story—a *success* story.

EXTRACTS • TINCTURES • ESSENTIAL OILS • RESINS • CHLOROPHYLL

Actual growers of

BELLADONNA • HENBANE • FOXGLOVE • PEPPERMINT • LAVENDER

Samples and quotations gladly supplied



Established 1846

Specialists in the manufacture of products to customers' own formulas

WILLIAM RANSOM & SON LTD

HITCHIN

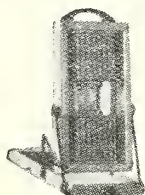
HERTFORDSHIRE

ENGLAND

SELL THE SUNLAMPS THEY PREFER

▶ ACTINEA AND SUPER ACTINEA ◀

Two sunlamps of a power sufficient for clinical use: high output of both infra-red and ultra violet. Handy and compact. Backed by National Advertising.



SUPER ACTINEA. High pressure 150 watt arc quartz tube. Ultra Violet and Infra Red can be used separately by means of a special plug. Complete safety, compact size (13" x 7" x 4" folded) £15.15.0d.



ACTINEA. High pressure 150 watt mercury arc quartz tube: independent 400 watt black body element: selector switch for Ultra Violet combined or Infra Red alone. Size (5" x 6" x 9 3/4" folded) £12.12.0d.

PERIHEL LTD

146 NEW CAVENDISH STREET · LONDON W.1

MEMBER OF THE K.G. (HOLDINGS) LTD. GROUP OF COMPANIES



MODERN EQUIPMENT



"WEBSTER'S"
STAINLESS STEELWARE

ISAAC WEBSTER & SONS LTD.

ABBAY WORKS

KIRKSTALL
LEEDS. 5.

TELEPHONE
51580
LEEDS

TELEGRAMS
"ISAAC WEBSTER"
KIRKSTALL

Grey Hair?
Ssh!!!



Keep it
DARK
with
SHADEINE

Still the best hair tint. In all natural Shades. Stocked by all wholesalers. Trade Prices: 1 oz., 24/4 per doz., 2 oz. 36/- per doz. Purchase Tax 90%. Retail Prices: 4/6½ and 6/8½ per bottle respectively.

YOUR
SALES
ARE
ASSURED
IF YOU
STOCK
SHADEINE

GOLDEN SHADEINE—2 oz. size at 24/4 per doz. Purchase Tax 90%, Retailing 4/6½ per bottle.



THE SHADEINE CO. LTD.

49 CHURCHFIELD ROAD, ACTON LONDON W.3

*Read at a glance... **SOLD** at a glance*

THE NEW "MAYFAIR" PERSONAL WEIGHER No. 206

The increasing interest in dieting for health and beauty is making more and more people weight-conscious. All of these people need an efficient, yet economically priced weighing machine for use in their own homes.

We are spending thousands of pounds in advertising our re-styled Mayfair machine to the public. The Mayfair is now available in many attractive colours—white, powder blue, april pink, spring green, or pale primrose. It's read at a glance, and **SOLD** at a glance. Stock and sell the new Mayfair—now.



SALTER

NATIONALLY ADVERTISED IN
leading women's magazines

Geo. Salter & Co. Ltd., West Bromwich

M-V4465

Monochloracetic Acid Sodium Monochloracetate

FARBWERKE HOECHST AG.

vormals Meister Lucius & Brüning

Frankfurt (M) - Hoechst



C 388 c - E/Ew 41

Distributors for chemicals in the U.K.:

HOECHST CHEMICALS LTD., 50, Jermyn Street, London S.W. 1, Tel. Reg. 7534

75, Piccadilly, Manchester 1, Tel. Central 223415

The Best costs no more!

when ordering ZINC OXIDE
insist on—

FELLING
ZINC OXIDE B.P.

AND GET THE

Highest Standard of Purity

WHOLESALE ONLY SUPPLIED
ENGLISH MANUFACTURE
USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

H. LATTIMER

22, UPPER GROUND,
BLACKFRIARS, LONDON SE1

Telephone: WATERLOO 5800

Manufactured by FELLING ZINC OXIDE CO., LTD.

GUM TRAGACANTH

GUM KARAYA
WHOLE AND POWDERED
DIRECT IMPORTERS

M. HAMBURGER & SONS
LIMITED
Plantation House
MINCING LANE • LONDON E.C.3

Phone:
MANSTON
HOUSE
4405
(3 lines)

THE WORLD'S GREATEST BOOKSHOP

FOYLES
FOR BOOKS

NEW, SECONDHAND AND RARE

BOOKS

Foyles have departments for Gramophone Records, Stationery, Handicraft Tools and Materials, Music, Magazine Subscriptions, Foreign Stamps.

119-125 CHARING CROSS ROAD, LONDON, W.C.2

Gerrard 5660 (20 lines) ★ Open 9-6 (Thur. 9-7)

Two minutes from Tottenham Court Road Station



**For good
Medicines...**

USE GOOD BOTTLES

UNITED GLASS BOTTLE MANUFACTURERS LIMITED

8 LEICESTER STREET, W.C.2

Telephone : GERRARD 8611 (23 lines). Telegrams : UNGLABOMAN, LESQUARE, LONDON



A FIRST CLASS LINE



Sales of Tussola have increased considerably through recommendation. This cough preparation has for its basis a mixture of treacle, honey and liquorice with squill, peppermint and aniseed, etc., and a small dose of Pholcodine.

Pholcodine is considered to have all the advantages of morphine in the suppression of unproductive cough without its disadvantages. In its favour are its low toxicity and its lack of influence on bowel movement and tone; it is non-constipating and is well tolerated by children. It is also more active than Codeine, less toxic and has fewer reactions.

PRICES

	Trade	Purchase Tax	Retail including P.T.
4 oz. Bottle	20/- doz.	6/- doz.	3/- each
8 oz. Bottle	31/- doz.	9/3 doz.	5/- each

Bonus and Crowner available

A PRODUCT OF *Cuxson, Gerrard & Co. Ltd.* OLDBURY, BIRMINGHAM

C. F. GERHARDT LTD

CONTROLLING HUFFER & SMITH LTD. & S. B. PENICK & CO. LTD.

OFFER, FOR HOME AND EXPORT, A WIDE RANGE OF

BOTANICAL DRUGS

AGAR-AGAR
CASCARA BARK
IPECAC. ROOT
LOBELIA HERB



MENTHOL
RAW OPIUM
SLIPPERY ELM BARK
WILD CHERRY BARK

and all other crude drugs in commercial use

MANUFACTURERS OF DETHMOR WARFARIN & DETHMOR PLUSBAIT

THE WORLD'S GREATEST RODENTICIDES

C. F. Gerhardt Ltd. New Era Works, Purley Way, Croydon, Surrey

Telephone: THOrnton Heath 4266

Cables: Strychnine, Croydon

The Beatson Tablet

Now available in
AMBER

- ★ Distinctive SQUARE Shape.
- ★ Black Plastic or White Enamelled Caps.
- ★ Full-automatic Production.
- ★ Prompt Despatch from Stock.
- ★ Available in the following sizes:—
 $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{2}$ $1\frac{3}{4}$ 2 $3\frac{1}{2}$ oz.

"The Sign of a



Good Bottle"

Suggested Packs:—

$\frac{1}{2}$ -oz.—25 Aspirin.

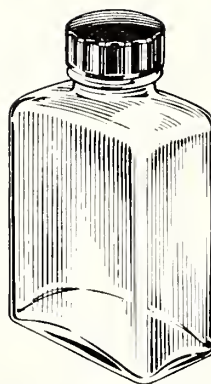
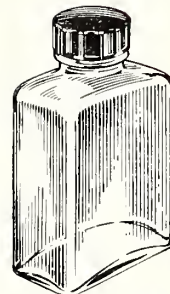
1-oz.—50 Aspirin or
25 Codeine.

$1\frac{1}{4}$ -oz.—100 Aspirin or
50 Codeine.

$3\frac{1}{2}$ -oz.—100 Codeine.

Beatson, Clark & Co., Ltd.

GLASS BOTTLE MANUFACTURERS
ROTHERHAM. ESTABLISHED 1751 YORKS.



Be sure to specify **BEATSON**



QUALITY

in White Flint

GLASS CONTAINERS

RECTANGULAR TABLET BOTTLES
Nos. 1 to 6 sizes

OVAL TABLET BOTTLES
Nos. 1 to 7½ sizes

SCREW CAPS (*White enamelled tinplate, Satin finish aluminium and Black plastic*) are available for all sizes.

Prompt delivery from stock

Packed in easily handled cartons

WHOLESALE ONLY



**NATIONAL GLASS
WORKS (YORK) LTD.**

FISHERGATE, YORK. Tel. YORK 23021
ALSO AT: 105 HATTON GARDEN, LONDON, E.C.1.
Tel. HOLBORN 2146

TRADE MARK

First Class in GLASS



Specialities:-

TERPENELESS
ESSENTIAL
OILS and
CONCENTRATES

We manufacture a wide range of floral & speciality bouquets for all classes of trade

PERFUME

CONCENTRATES

ADRENALINE

BARBITURATES

CARMINE

BENZOCAINE

CAMPHOR

DIASTASE

FOLIC ACID

HALIBUT LIVER OIL

PANCREATIN

PAPAIN

PAPAVERINE

PIPERAZINE

PHENAZONE

SAFFRON

PROCAINE

PEPSIN

THYROID

Etc.

PHARMACEUTICAL & FINE CHEMICALS

OILS

ANISEED

CLOVE

CAJUPUT

JUNIPER

PEPPERMINT

Etc

ESSENTIAL OILS

MEDICAL SPECIALITIES

"KADAMYSIN"

For
bronchial asthma.
Boxes of 10 x 1 ml.
ampoules.

"DEGALAN"

For haemorrhoids.
Ointment and suppositories
(Boxes of 10)

Veterinary

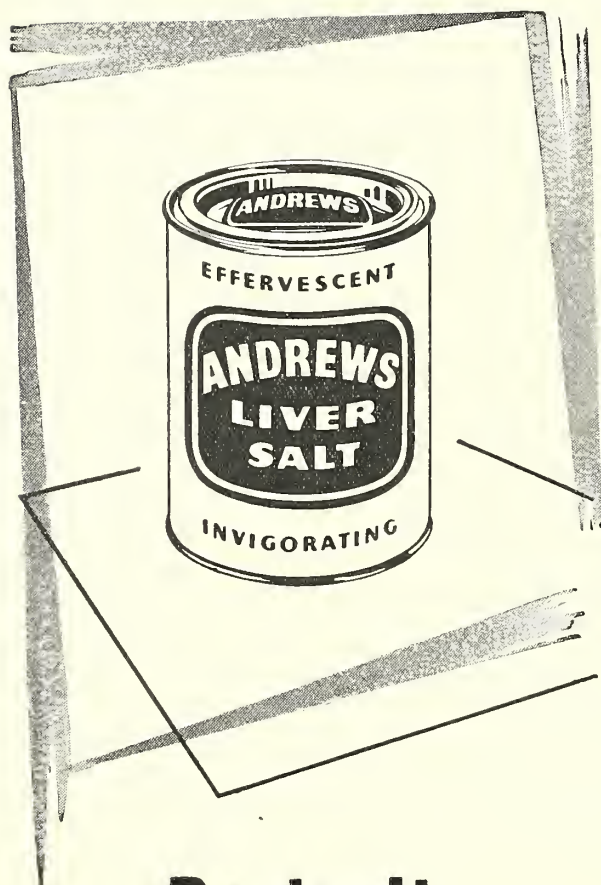
"DEVATOL-A" Tablets

An invigorator and tonic
for all domestic animals.

ZIMMERMANN

Chas. Zimmermann & Co. Ltd.,

Dega Works, Walmgate Road, Perivale, Middlesex,
Phone: Perivale 9121 (4 lines) Grams: Acidolan, Greenford, Midd'x.
Glasgow Office: 75 Armadale Street, Glasgow, E.I. Phone: Bridgeton 0325.



Portrait of a Best-Seller

ANDREWS has the largest sale of any effervescing saline in the world. This is because:—

- ★ The public have confidence in it.
- ★ It has never been sold by exaggerated claims.
- ★ Its packing and keeping qualities are guaranteed.
- ★ It is advertised by a powerful national campaign, including extensive use of T.V.

Andrews
for INNER CLEANLINESS



PRIDE

hair beauty PREPARATIONS
SELL ON SIGHT!

Spraying ^{HAIR} *Lacquer*

Retails at 4/3

The finest of hair lacquers with a delightful perfume available in the new Super Spray 2½ oz. polythene bottle (various colours) in attractive individually packed cartons, and boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 2 doz. display units retail at 2s. 8d.



Egg and Lemon

CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser. Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoo tubes 9d.; 3 individual shampoos linked together, 10½d.—all packed in well-designed display outers.



Scalp Milk

Retails at 3/3

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick-drying action holds the hair, removes tangles; leaves hair free from all deposits and with a beautiful lustre.



PRIDE PRODUCTS SELL ON SIGHT!

These Fast-Selling lines are now being advertised continuously in National magazines and on Television.

From your usual wholesaler or direct—

B. N. FURMAN (PRODUCTIONS) LTD., 133 Fonthill Road, N.4



VOCALZONE PASTILLES

**ADVERTISING AND A
FREE SAMPLING SCHEME**
are steadily increasing the demand
PACKED IN COUNTER DISPLAY CARTONS
Obtainable from your usual supplier or direct from:

VOCALZONE LTD.
120 MOORGATE · LONDON · E.C.2

Brown-Glo

a creation of L'OREAL · PARIS

The **NEW** semi-permanent colouring that
restores completely **NATURAL COLOUR** to
GREYING HAIR



COLOR-GLO created a vast new hair colouring market among younger women. Now comes **BROWN-GLO**, a sister product which conceals greying hair: *backed by a powerful and regular advertising campaign in the Women's Magazines (over 12 million readers).*

The first of its kind in the world, **BROWN-GLO** will bring about another hair colouring revolution. At last, a woman with unwanted greying hair can buy a semi-permanent hair colouring that will conceal her grey hair absolutely naturally, and have all the following reassuring advantages.

- * It is not a dye—not a rinse.
- * It is absolutely harmless, and foolproof.
- * It survives shampooing and the effects last 4 to 5 weeks before requiring renewing.
- * Although it conceals her greying hair, the user still retains her natural colouring.
- * Because it is semi-permanent, she can return to her natural grey.
- * **BROWN-GLO** cannot rub off on clothes or pillows or run when wet.
- * It's good for the hair—improves its condition.
- * It does not affect permanent waving.

Millions of women have unwanted grey hairs. Every one is a potential user of **BROWN-GLO**, and once they begin to use it, they will go on buying it every 4 to 5 weeks.

There is big new profit for you—make no mistake about that. A great volume of sales is a certainty. All the drive, sales "know-how" and successful advertising technique that made **COLOR-GLO** a big seller from the word go is behind **BROWN-GLO**.

Advertising for this revolutionary hair colouring is now appearing in the big circulation women's magazines. Grey haired women all over the country will be asking for **BROWN-GLO**. You must have some on your counter. Order from your Wholesaler *now*, he has stocks available.

Brown-Glo

Trade price 28/10 per doz.
plus 90% tax

Retails at 5/9 per tube.

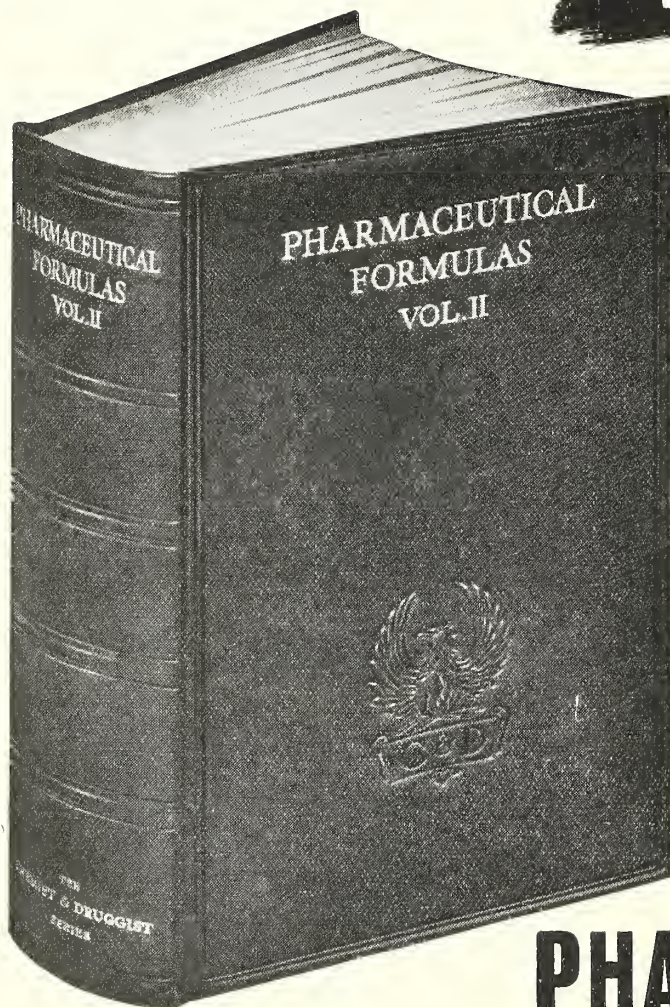
Packed in a tube inside an individual display carton with instruction leaflet and sponge applicator.

There are six shades, which we suggest are ordered in the following proportions:

Mid Brown	25%
Mid Warm Brown	15%
Dark Brown	20%
Dark Warm Brown	15%
Light Brown	12½%
Light Golden Brown	12½%

A SISTER PRODUCT OF COLOR-GLO . . . FASTEST SELLING HAIR COLOURING PRODUCT

**900 PAGES
OF TEXT AND
FORMULAS**



FROM YOUR
BOOKSELLER
OR DIRECT
FROM

*Recipes and methods
of making*

ADHESIVES, BEVERAGES
CLEANING MATERIALS
CONFECTIONERY
COSMETICS, CULINARY &
HOUSEHOLD REQUISITES
DENTAL PREPARATIONS
HORTICULTURAL PRODUCTS
LACQUERS & VARNISHES
PASTILLES & LOZENGES
PERFUMERY, PESTICIDES
PHOTOGRAPHIC REQUISITES
POLISHES, HAIR PRODUCTS
TOILET PREPARATIONS
VETERINARY PRODUCTS
WRITING MATERIALS, Etc.

*Each section under
an introductory
chapter of text.*

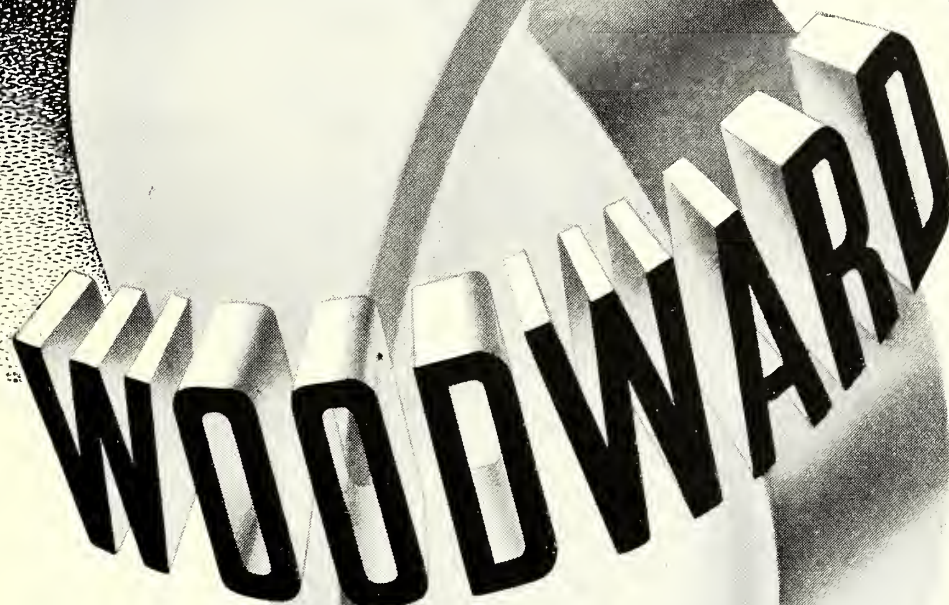
PHARMACEUTICAL FORMULAS, VOL. 2

PRICE **42/-** postage 1/9d.

SPECIAL COMBINED PRICE

If you buy at the same time
Pharmaceutical Formulas Vol. 1
(pharmaceutical products in-
cluding those of foreign pharma-
copoeias) you pay 75s. (postage
2/3d.), a saving of 4s. 6d.

The
CHEMIST AND DRUGGIST
28 ESSEX STREET, STRAND,
LONDON, W.C.2



WOODWARD

Specialists
in **TABLETS**



Medicinal Tablets prepared to
customer's own formulæ



Quality and accuracy guaranteed



Modern Plant



Prompt Delivery

HOME AND EXPORT ENQUIRIES INVITED

G. O. WOODWARD & CO., LTD.

MANUFACTURING CHEMISTS

LARKHALL WORKS, MORRISH ROAD, BRIXTON HILL, LONDON, S.W.2

Telephone: TULSE HILL 9481-2-3



IR 192

SAMARITAN CHILBLAIN CREAM

- * *Pharmaceutically elegant*
- * *Highly effective*
- * *Attractively packed*

Thoroughly tested and proved really effective for the relief of the pain of chilblains.

Another good 'Samaritan' product which can be sold with complete confidence.

Retail 1/9 per tube.

Cost 10/8 per dozen.

Plus 30% purchase tax.

Order now in readiness for winter display and sales.

THORNTON & ROSS LIMITED

LINTHWAITE LABORATORIES
HUDDERSFIELD ENGLAND

For an unusually efficient service in the supply of all Patents, Ethical Proprieties, Drugs, Galenicals and sundries.

We deliver regularly to pharmacists in South Yorkshire, Nottinghamshire and Derbyshire.

SMITH & HILL
(CHEMISTS) LTD.
SIDNEY ST., SHEFFIELD, 1.
Telephone: 28383 (5 lines)

"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
SODIUM METABISULPHITE
SODIUM HYPOSULPHITE
(Crystals and Anhydrous)
SODIUM SULPHITE
(Crystals and Anhydrous)
P₂O₅OM SALTS B.P.
GLAUBER SALTS B.P.
PRECIPITATED SULPHUR B.P.
ACCUMULATOR ACID

Enquiries Invited
JOHN RILEY & SONS, LTD
HAPTON, NR BURNLEY
Grams: "Rileys" Hapton Phone: Padham 290/4

The NEW DRUMMER LAVATORY SANITIZER



*** FRESHENS**
*** CLEANS**
*** SANITIZES**

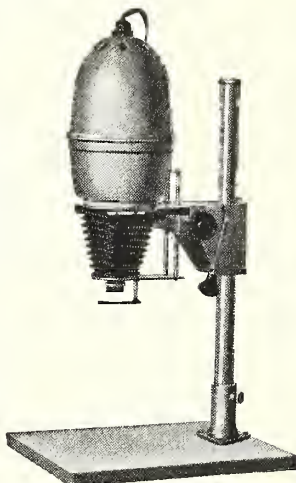


RETAIL
PRICE
1/6
EACH

A DRUMMER PRODUCT
EDGES OF BOLTON

GNOME**BETA II** $2\frac{1}{4} \times 3\frac{1}{2}$ to 35 mm.**THE MOST POPULAR
AND CONSISTENT SELLING
ENLARGER FOR YOU TO STOCK.****Price from £10.2.6**

- Easily interchangeable lens feature to suit your customers' choice.
- This enlarger has such refinements as "one hand" quick release column clamp. Twin bar focussing with smooth precise movement and provision for fitting optical condensers.
- Nationally advertised and with 12 months guarantee.
- Credit Sale terms available through Metroer H.P. Co. Ltd.

*For further details write to***GNOME PHOTOGRAPHIC PRODUCTS
LTD., CAERPHILLY ROAD, CARDIFF**

**Do not
disappoint
your customers
—stock and display**

Askit

**Powders and tablets for the safe and
speedy relief of headaches, colds, chills,
rheumatic and nerve pains.**

EX ALL LEADING WHOLESALE HOUSES

THE HALLMARK OF PURITY
For further particulars apply to—
TRADE AGENT FOR MYSORE
28 Cockspur Street, London, S.W.1
Tel.: Whitehall 8334/5
'Grams: MYSOF, Lesquare, London

**THE
DALES TABLET MAKERS LTD.**

WITH
**EXPANDING SPACE
AND
INCREASING FACILITIES**

HAS UNITED
THE SKILLED ART OF THE
TABLET MAKER
THE MODERN SCIENCE OF
THE PHARMACIST
AND INTERESTED AND
ENERGETIC STAFF
TO CREATE

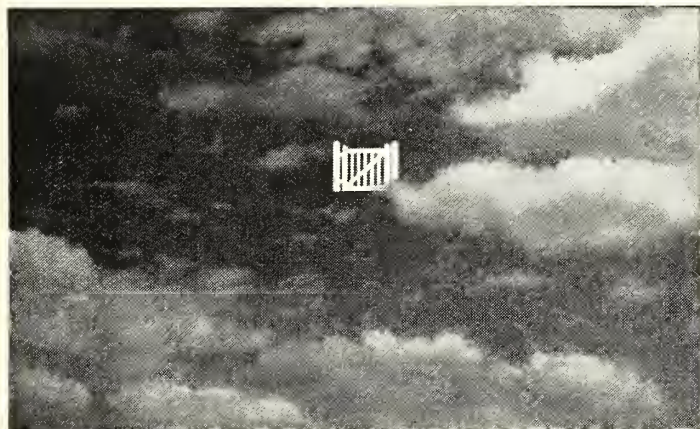
**A UNIQUE
TABLETTING SERVICE**

HOME TRADE — EXPORT — PACKED
INDUSTRIAL — BULK

Customers' Own Formulae and/or Materials.

BARROWS LANE, STEETON, NR. KEIGHLEY, YORKS
Telephone: Steeton 2222 Telegrams: Talkien Steeton

when the garden gate seems miles away



... and rheumatic pains are most severe, Anabalm cream is clearly indicated. Developed as an adjunct in the treatment of rheumatic and myalgic conditions, Anabalm provides—the sustained relief of long-acting salicylate and capsicum; the vaso-dilatory effect of histamine; the rubefacient action of menthol. Anabalm, with a vanishing cream base, is non-greasy; its content of squalene ensures maximum absorption of all the therapeutic ingredients.

ANABALM TRADE MARK

FORMULA:
Squalene 10%
 β -Chloroethyl Salicylate 10%
Oleoresin of Capsicum 0.1%
Menthol 4%
Histamine Hydrochloride 0.1%

PACKING: 1 oz tube 3/7½ inc. P. Tax

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON NW10



women everywhere
will see about
hear about

bunnymuff

on
T.V.

Bunnymuff will be featured regularly on Television's National Networks. Commencing with "Family Magazine" February 10th. 10.00—10.15pm.

PREPARE FOR THE BUNNYMUFF BOOM
Bunnymuff makes the ideal baby gift.

Bunnymuff the "nearer to nature" way of keeping baby's bottle feed warm. Attractively boxed.

Retails at - - - **6/11**

Order today from your
wholesaler or direct from:—



BELTON PRODUCTS · AMWELL HOUSE · HODDESDON · HERTS

BONUS SERVICE

—or should we say bonus and service for that is what the pharmacist gets with M.M.P. Bonus Parcels. He chooses the contents himself and then—in addition to the normal retail profit—can claim a special discount of 5% on £2 10s. 0d., 10% on £5 0s. 0d., 12½% on £7 10s. 0d.

STOP PRESS: In addition to the sizes shown below Strix tablets are now available in a popular "trial size" tube retailing at 1/9d.

RETAIL PRICE LIST

(Including Purchase Tax)

Brovon Inhalant	½ fl. oz.	7/- *
" "	1 fl. oz.	12/6 *
" "	2 fl. oz.	24/3 *
" "	4 fl. oz.	47/- *
Brovon Bronchial Mixture ...	4 fl. oz.	3/9
Brovon Elixir	4 fl. oz.	5/11 *
Brovon Tablets	25s	3/3 *
" "	100s	11/4 *
Brovonex	3 fl. oz.	5/6
" "	8 fl. oz.	13/9
Brovonite Tablets	25s	3/6
" "	100s	11/10
Codasphen Tablets	15s	2/3
Codella Emollient Cream ...	1 oz. tube	2/3
" " " "	3½ oz. jar	5/-
Metheph Tablets	25s.	3/- *
" "	100s	9/3 *
Noctynol Tablets	12s	2/9
Serix Asthma Inhalant	½ fl. oz.	7/- *
" " " "	1 fl. oz.	12/6 *
Strix Tablets	25s	3/6 *
" "	50s	6/- *
Teetide Tablets	50s	8/8
Moore's Teething Jelly	1 oz. tube	2/6

GLASS INHALERS

Midget Clear	9/- *
Midget Amber	10/- *
Brovonette	9/- *
Bon-Accord	10/- *
Bydand	10/- *

PLASTIC INHALERS

Deedon	21/- *
Bon-Accord	15/- *

* Exempt from Purchase Tax

MOORE MEDICINAL PRODUCTS LTD.

64 GLOUCESTER PLACE, LONDON, W.1. Tel.: WEL 5718
1 QUEEN'S TERRACE, ABERDEEN, SCOTLAND.
Tel.: Aberdeen 27233

Restrictive Trade Practices Act 1956

FIXED RETAIL PRICES 1/8—3/9 Including Purchase Tax
The maintenance of these prices is a condition of sale

Dr. J. Collis Browne's

CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

Pharmacy and Poisons Act 1933

**PURCHASER'S SIGNATURE
NOT REQUIRED**

Sole Proprietors—

J. T. DAVENPORT LTD.

Union St., London, S.E.1

P.A.T.A.

FOR OVER 100 YEAR

THE DRIVE IS ON!

for

MORGAN'S POMADE

Advertisements are running now in these top-readership papers:—

Radio Times News of the World Sunday Express
(23,484,000) (19,388,000) (9,699,000)

From all over Britain stockists are reporting a new demand for Morgan's Pomade! Morgan's Pomade advertising is reaching new customers so get your share of this additional business.

NEW NAME—remember, "Marie Antoinette Hair Colour Restorer" is now marketed and advertised as "MORGAN'S HAIR COLOUR RESTORER"

FULL RANGE OF NEW PRICES (all incl. P.T.)

GLASS JARS 4/2d and 7/5d

Specially perfumed:
Opal jars, 3/10 and 6/11d

MORGAN'S HAIR
COLOUR RESTORER
(LIQUID) Bottle 5/7d

**STOCK · DISPLAY
SELL**



**MORGAN'S
POMADE CO. LTD.**
1-7, Grenville Road,
London, N.19.

for fine chemicals...



ring CLISSOLD 1234

W·J·BUSH & CO·LTD·LONDON·E·8·ENGLAND

1957/C201

Mellajuce

Regd.

FRUIT JUICES and
TOMATO COCKTAILS

Diabetics are describing
them as:—

..... "DELIGHTFUL"
"DELICIOUS"
"A WELCOME EXTRA"

THE PURE JUICE IS SO MUCH
BETTER THAN ORDINARY SQUASH

Apply to your wholesaler or direct to

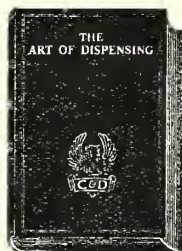
8 HOWARD STREET, GT. YARMOUTH
TELEPHONE: 4344

A Modern Version of an Old Favourite

The Art of Dispensing

Now Completely re-written

Price 21/-
(postage 1/4)



"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may, indeed, be regarded as the classical work on this subject. Many of the difficulties and perplexities met with in the daily

practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary. New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

Order from your Bookseller or direct from The Publisher:

The
CHEMIST AND DRUGGIST

28 ESSEX STREET · STRAND · LONDON · W.C.2

The CHEMIST AND DRUGGIST

CLASSIFIED ADVERTISEMENTS (Prepaid)

Specialty spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 18/- per ½ inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 17/6 for 36 words minimum; then 4d. per word. Box 2/-. Situations Vacant, 12/- for 36 words minimum, then 4d. per word. Box 2/-. Situations Wanted, 3/- for 18 words minimum; then 2d. per word. Box 1/-. Replies to Box numbers should be addressed to:—The Chemist and Druggist, 28 Essex Street, Strand, London, W.C.2. Phone: CENTral 6565.

ORRIDGE & COMPANY

184 STRAND, W.C.2
Tel: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

PREMISES

MAIDSTONE. Freehold factory 11,500 sq. ft. for sale. Site ½-acre. Main-road position, one m.le from centre. All services. Apply: Leopold Farmer & Sons, Auctioneers & Surveyors, 46 Gresham Street, London, E.C.2. (Monarch 3422.) C 7589

PREMISES TO LET

CHEMIST REQUIRED. South Herts. Rapidly developing district now 30,000 with only two chemists, provides opportunity in new shopping parade. Unit 18 ft. by 45 ft. with flat over. Boreham Wood. Only £650 per annum. Apply Marcus Leaver & Co., 36 Bruton Street, London, W.1. Mayfair 4266. C 1284

TWO LARGE SHOPS TO LET. with upper parts, in first-class unique position facing Ford's factory, Dagenham. Excellent shops for chemist, badly required. Apply A. G. Queen's Hotel, Church Road, Upper Norwood, S.E.19. C 7588

WILSON STREET, E.C.2. New Commercial and Industrial Building. Area about 20,000 sq. ft. on ground, basement and four upper floors. Two main entrances. Loading dock, Passenger/goods lift. Central heating. Floor loading 200 lbs. per sq. ft. Rent £9,000 p.a. excl. Lease 21 years. Immediate possession. Sole Agents: Chamberlain & Willows, 23 Moorgate, E.C.2 (MET. 8001). C 7487

BUSINESSES FOR DISPOSAL

MANCHESTER (South). Good-class family business for sale with large modern self-contained flat above (consider leaving furnished). Present owner 24 years. Turnover over £7,500. Gross profit over £2,500. Profitable counter specialities. Scripts approx. 1,000 month. Scope to add optics or specialised photography. Capital required including pleasantly situated property nearest £7,000. Box C 1276.

BUSINESSES WANTED

PROMINENT COMPANY wishes to purchase either outright or controlling interest in established manufacturing chemists or proprietary medicine business, size immaterial. Please address all communications, which will be treated in strictest confidence, to Managing Director, Box C 364.

APPOINTMENTS

CITY GENERAL HOSPITAL, SHEFFIELD, 5

Post-graduate Pharmaceutical Student

Applications are invited for the above appointment to undertake the necessary twelve months' experience at the above hospital of 680 beds. Salary £385 per annum. Apply giving full details to the Group Secretary, Sheffield No. 1 Hospital Management Committee, Nether Edge Hospital, Sheffield, 11. C 7580

GENERAL HOSPITAL, RAMSGATE

Chief Pharmacist (Category II)

Whitley Council salary scale—£725 to £990 per annum. Applications, stating age, qualifications and experience, with names of two referees, to the Hospital Secretary. C 368

H.M. PRISON SERVICE

Pharmacist vacancy

Applications are invited from men or women for appointment as pharmacist at H.M. Prison, Birmingham.

Applicants should be not less than 25 years of age and be registered pharmacists. Salary £725 x £30/35-£990 per annum plus additional allowance £25 to holders of a recognised higher qualification.

Superannuable post under N.H.S. contributory superannuation schemes.

Apply to Establishment Officer (E51/7/18), Prison Commission, Horseferry House, Dean Ryle Street, London, S.W.1, by February 18, 1958. C 7597

HOSPITALS FOR DISEASES OF THE CHEST

Locum Chief Pharmacist (Category III)

required at THE LONDON CHEST HOSPITAL from June 16 to June 28, inclusive. Salary by arrangement.

Applications to the Acting House Governor, London Chest Hospital, E.2. C 7566

LAMBETH HOSPITAL, BROOK DRIVE, LONDON, S.E.11

(Acute General Hospital—510 beds)

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in an expanding department. Salary (plus London Weighting) in accordance with Whitley Council scale.

Applications stating age, experience, qualifications and names of two referees to Secretary. C 361

HOSPITALS FOR DISEASES OF THE CHEST

Pharmacist or Senior Pharmacist

Applications are invited for the above post at the LONDON CHEST HOSPITAL. Salary in accordance with the Whitley Council scales.

Applications, stating age, qualifications and experience, accompanied by two testimonials, to the Acting House Governor, London Chest Hospital, E.2. C 7565

LAMBETH HOSPITAL, BROOK DRIVE, LONDON, S.E.11

(Acute General, 510 Beds)

Pharmacist

required. Salary in accordance with Whitley Council scale, plus London Weighting. Applications stating age, experience, qualifications and names of two referees to the Secretary. C 359

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Locum Pharmacist

required from February 10, 1958. Salary £16 16s. per week. Applications to the Chief Pharmacist, (Tel. No.: Stepney Green 4251.) C 7568

LAMBETH HOSPITAL, BROOK DRIVE, LONDON, S.E.11

Assistant-in-Dispensing

required. Whitley Council rates of pay and conditions. Applications in writing giving names of two referees to the Secretary. C 360

LONDON HOSPITAL ANNEXE, ONGAR ROAD, BRENTWOOD, ESSEX (200 beds)

Assistant-in-Dispensing

required. Preference given to candidate holding the Certificate of the Society of Apothecaries. Salary in accordance with Whitley Council Scale. Write to House Governor, The London Hospital, Whitechapel, E.1. C 371

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Pharmacist

required. Salary scale £580 x £30 (6) x £25 (1) to £785 p.a., plus London Weighting. Whitley Council conditions of service. Applications stating age, qualifications, experience and the names of two referees, to be sent to the Chief Pharmacist. C 7567

MANAGEMENT COMMITTEE WALSALL HOSPITAL

Deputy Chief Pharmacist (Category IV)

required. Duties mainly concerned with control of modern manufacturing and aseptic unit. Applications, together with names of two referees, to Group Secretary, General (Sister Dora) Hospital, Walsall. C 7596

NATIONAL HEALTH SERVICE (SCOTLAND) DRUG ACCOUNTS COMMITTEE

Superintendent of Pricing Bureau, Edinburgh

Applications are invited from suitably qualified persons with administrative experience for the post of Superintendent of Pricing Bureau, Edinburgh.

The officer appointed will require to have in addition, organising ability and be able to control a large staff of approximately 100.

The salary will be in accordance with the Whitley Council for the Health Services scale which is at present £814 x £33 (5) x £20 (1)—£999.

The appointment is superannuated and will be subject to the Conditions of Service from time to time in force. The successful applicant will be required to pass a medical examination. Applications stating age, qualifications, experience and particulars of present and previous employment, together with the names and addresses of two referees should reach the undersigned not later than February 15, 1958.

The Clerk,
DRUG ACCOUNTS
COMMITTEE.

137 Sauchiehall Street,
Glasgow, C.2.

C 7583

RIKER

Riker Laboratories Limited have vacancies for medical representatives. Remuneration, by salary and bonus, is good, expenses are generous and a new car is provided. Territories are as follows:

1. Somerset, Dorset, Wiltshire.
2. South Lancashire.
3. Surrey.
4. East London.
5. Oxfordshire, Buckinghamshire, Berkshire.
6. North Scotland.
7. Northern Ireland.

These are posts offering first class prospects for the right men. There are opportunities for further progress since promotion from within the representative force is a feature of company policy. Only applications from pharmacists or suitably qualified medical auxiliaries will be considered. Previous experience is not essential as a very comprehensive training is given. Apply in the first instance in writing to: The General Sales Manager, Riker Laboratories Limited, Morley Street, LOUGHBOROUGH, Leics.

marking the envelope "Representative."

C 7552

ROCHE**THE CHANCE OF A STEADY CAREER**

Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives. A pharmaceutical qualification/experience or equivalent academic attainment essential.

Vacancies occur in:

1. London;
2. Derby, Lincolnshire, Notts.
3. Yorkshire;
4. N.E. England

with further developments contemplated. Applications from other areas will receive consideration.

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary, Roche Products, Ltd., 15 Manchester Square, London, W.1. Applications will be treated as confidential.

C 7550

Appointments—Continued**METROPOLITAN HOSPITAL,
KINGSLAND ROAD, E.8**

Locum Pharmacist

required immediately. Salary up to 16 gns. per week. Apply to Hospital Secretary. Phone: Clissold 6862. C 370

**ROYAL BERKSHIRE HOSPITAL,
READING
(Category V)**

Senior Pharmacist and Pharmacist

required in Group Pharmaceutical Department, facilities for obtaining wide experience in pleasant surroundings. Staff of eleven. No Sunday duties, frequent 5-day weeks. Apply giving the names of two referees to Group Pharmacist. C 369

**ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,
ST. ALBANS, HERTS**

Locum Pharmacist

required immediately at the above hospital, half-an-hour from central London. Salary by agreement. Applications giving full particulars to Chief Pharmacist. Telephone: St. Albans 52211. C 7540

**ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,
ST. ALBANS, HERTS
(384 beds)**

Senior Pharmacist (Category III)

Applications are invited for the post of Senior Pharmacist (Category III) at the above Hospital 20 miles from Central London. Whitley Council salary and conditions. Applications stating age, qualifications and experience to the Chief Pharmacist. C 7533

**THE UNITED BIRMINGHAM
HOSPITALS,
THE QUEEN ELIZABETH
HOSPITAL,
EDGBASTON, BIRMINGHAM, 15**

Pharmacist

Applications are invited from Pharmacists for a resident post providing a unique introduction to hospital pharmacy. Encouragement is given to useful research. Salary in accordance with Whitley Council scales, less a deduction of £140 per annum for full board residence. Applications giving names of two referees, to the Chief Pharmacist. C 7578

**UPTON HOSPITAL, SLOUGH,
BUCKS**

Senior Pharmacist

required at this General Hospital. Applications stating age, qualifications and experience, with names of two referees to Secretary, as soon as possible. C 7436

**VICTORIA HOSPITAL FOR
CHILDREN,
TITE STREET,
CHELSEA, LONDON, S.W.3**

Assistant-in-Dispensing

Applications for this vacant post are invited. Interesting and varied duties. Whitley Council terms of service and pay. Apply in writing to the Chief Pharmacist. C 7548

HEALTH CENTRE**SWINDON HEALTH CENTRE**

Deputy Chief Pharmacist

Applications invited from pharmacists for superannuable appointment of Deputy Chief Pharmacist at above Health Centre.

Salary on scale £675—£910 p.a.—39-hour week. Applications stating age, qualifications, experience and names and addresses of three referees to be sent as soon as possible to the Clerk of the Council, County Hall, Trowbridge. C 367

SITUATIONS VACANT**RETAIL HOME**

ASSISTANT Pharmacist required for good-class family and dispensing business. Excellent prospects offered to suitable applicant. Good house available away from shop. Knowledge of photography preferred but not essential. Duties chiefly dispensing, Milcs, Ltd., Chemists, Baxter's Plain, King's Lynn. (Phone: 2513.) C 1273

BECKENHAM, KENT. Unqualified young lady assistant required with experience in dispensing. Good salary and hours. Half-day Saturdays. High-class residential area. 10 miles from London. J. D. Millar, 90 Wickham Road, Park Langley, Beckenham, Bec, 1213. C 1281

COVENTRY. Post-graduate student required for busy suburban pharmacy. Good dispensing and managerial training given. C. N. Watts, M.P.S., 129 Daventry Road, Coventry. C 1257

KINGSBURY. Pharmaceutical chemist required to manage a substantial business. There is a good supporting staff and the salary will be commensurate with the responsibilities. Applications giving full details to Box C 1241.

LONDON, SOUTH-EAST 18. Pharmacist required, due to retirement, to manage old-established, middle-class pharmacy, where there is large scope due to rehousing developments. The pharmacy is shortly to be modernised. Please give all details of age, experience, etc., in confidence, to Managing Director, Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19. C 1283

LONDON, W.11. Unqualified lady assistant required for dispensing and some counter work. Congenial post with no extra duties. Part-time would be considered. Reply with usual particulars. Broad, 194 Holland Park Avenue (Phone: Park 5730). C 1279

NORTHUMBERLAND. Superintendent pharmacist (one shop) required for Society near Whitley Bay. N.U.C.O. scale and conditions of employment. Superannuation scheme with transfer clause, plus other emoluments. Applications, giving details of age, qualifications and experience, to be forwarded to Secretary/Manager, Shiremoor Co-operative Society, Ltd., Earsdon Road, Shiremoor, Northumberland. C 1262

PHARMACIST required for a new chemist shop in a new town. Maisonette or house available. Possible directorship to right applicant. Good salary. Box C 1275.

SHEFFIELD DISTRICT. Pharmacist required, either sex. Salary £22 per week. Applications stating age, etc., to R. H. Fairburn, Ltd., Kiveton Park, Sheffield. C 1239

POTTERS BAR. Experienced managing pharmacist required for a business which offers scope for extension and development. There is a substantial salary structure, along with other benefits. Applications in first instance to Box C 1242.

SALISBURY. Pharmacist required to take charge of dispensary in modern high-class pharmacy. This is an opportunity for a young man or career woman to work under sole owner with the ultimate object of taking over complete management within a few years. Excellent business in main street. Staff of 14. Hours 9 to 6. Rota to 7 p.m. on eight weeks per year. Three weeks holiday. Accommodation available if required in early spring. Rowland Thursby, 38 High Street, Salisbury. C 1272

SOUTHAMPTON. Pharmacist required to manage modern pharmacy in the main shopping centre, light dispensing duties, good passing trade. Experience of staff control, together with photographic and high-class toiletries. Permanency, situation carries pension (non-contributory). Apply giving full particulars, age, experience and salary, etc., and when available for interview to: W. Bates & Co., Ltd., Unity Chambers, Latimer Street. C 1232

WANTED. Pharmacist to take over complete control and management. An alert and vigorous man will be paid up to £1,000 a year according to experience with good prospects. Apply, in confidence, marking envelope "Application for Managership," to Spilman (Chemists), Ltd., c/o 2 Storey Street, Hull. C 1258

LOCUMS WANTED

ACTIVE Locum for six weeks, either consecutively or 2 three-week periods, during May, June, July, August and September. Normal hours of business. Name own terms. Apply: Mr. B. G. Glover, M.P.S., c/o B. G. Glover, Ltd., 8 Southey Hill, Sheffield, 5. C 1267

LOCUM pharmacist required for Birmingham area. July 14 to 26, also August 18 to 30. Also would consider lady Pharmacist, full time, or part-time could be arranged. Good supporting staff. Apply Hollyoak, Chemist, Oldbury. C 1261

WHOLESALE**AGENCY EXECUTIVE**

Inquiries are invited from applicants qualified to take up an important executive position with a West End advertising agency specialising in the field of ethical pharmaceuticals. The individual we are seeking should have experience either as an advertising manager or as an agency executive handling pharmaceutical accounts. Experience in the field of marketing would be of great advantage.

The position to be filled involves a broad managerial responsibility and calls for a man of substantial experience and knowledge. Applications, which should provide all necessary information including approximate salary requirements, will be treated in strict confidence. Box C 1270.

ANALYST wanted for analytical and research work by old-established manufacturing company in Liverpool area. Pharmaceutical qualification minimum and experience desired. Five-day week. Pension scheme. Full details with application to Technical Director. Box C 7582.

C I B A MEDICAL REPRESENTATIVES

Applications are invited from young pharmacists for the following territories:

- (i) Kent and East Sussex.
- (ii) Gloucestershire and Somerset.
- (iii) Staffordshire and North Warwickshire.
- (iv) South-West Wales.

Previous experience unnecessary as the selected men will be trained. Car provided and full expenses paid. Progressive salary and pension scheme. Apply in writing with full particulars of age, education, qualifications and experience, to the Sales Manager, CIBA Laboratories Ltd., Horsham, Sussex. C 7579

C. L. BENCARD LTD. MEDICAL REPRESENTATIVES

Two vacancies exist in the representative force of this progressive British company, for men to call on doctors, hospitals and pharmacists in:—

- (a) Gloucestershire, Herefordshire, Worcestershire
- (b) Cardiff, Monmouthshire, Brecknockshire

Applicants should be under 35 years of age and it is preferable to have had previous experience in this field. They should be of good education and personality. Non-contributory pension and profit participation schemes operate.

Car provided; current driving licence essential. Written applications in confidence to the Sales Manager: C. L. BENCARD LTD., Park Royal, London, N.W.10. C7593

Situations Vacant—Continued

ALLIED LABORATORIES LTD.

Medical Representative required for S.E. London and Kent to take over and develop an established connection. Previous experience in this work is not essential but a sound medical or pharmaceutical background is necessary. Remuneration is by salary, commission and expenses. Company car provided. An attractive pension scheme is in operation. Applications, giving details of career to date, should be addressed to Sales Manager, Allied Laboratories Ltd., 140 Park Lane, London, W.1. C 7574

ASSISTANT WORKS MANAGER required for small factory and distillery in East Surrey. Age 22-30 years, with some experience in large-scale compounding and control of labour. Pension scheme in operation. Applicants to give particulars of education, training and experience, and salary required, in confidence, to the Director, Box C 1265.

BIRMINGHAM. An old-established company will shortly open an ethical products wholesale department. Initially an experienced manager who has a thorough knowledge of the wholesalers' problems is required and we are anxious to fill this vacancy at earliest opportunity. For reference in the near future, applications are invited also from experienced counter hands, invoice and order clerks, etc. Knights (Mfg. Chemists), Ltd., Church Road, Perry Barr, Birmingham, 22b. C 1271

CALMIC LIMITED

require an experienced Medical Representative to call on doctors, hospitals, and chemists in North and East London and Essex to discuss the company's ethical preparations.

Applicants should be resident in the territory. Good salary and expenses. Pension scheme. Car owner preferred. Apply in writing, please, to: Calmic Limited, 2 Mansfield Street, London, W.1. C 7575

INVOICE CLERK required by manufacturing chemists in N.W. London, modern office and good prospects. Reply Box C 7515.

MEDICAL REPRESENTATION

PHARMACISTS or men with extensive Pharmaceutical backgrounds are invited to apply for appointments as Medical Representatives.

The main requirements are a knowledge of modern therapeutics, pharmacy and selling. In addition, enthusiasm, imagination and integrity are essential.

The Company offers a good basic salary in addition to a pension and life cover, provides a car and operates a bonus scheme.

When applying please give full details of self and career to date, and state which area of the United Kingdom you are interested in. Replies to Box C 7522.

EDWARD TAYLOR, LTD., Manufacturers of Medical Plasters, require a representative to cover hospitals and wholesalers in South Wales and South-west England. Company car provided. Remuneration by salary and expenses. Application stating age, experience and full details of previous employers which will be treated in confidence to: Sales Manager, Monton, Eccles, Manchester. C 1247

EXPANSION OF SALES FORCE

The manufacturers of Suba Seal Chemists' Products and Suba Maid Housewares require three experienced representatives in the following areas:—

1. North Lancashire.
2. Northants and parts of Warwicks, Beds., Bucks., and Oxford.
3. South West London, part of Surrey and Sussex and Hampshire.

Nucleus of first-class connection will be handed over to successful applicant and there are excellent prospects for the future.

Remuneration by salary, commission and expenses. Staff superannuation. Car driver essential.

Reply, giving full details of career to date, age, and when available, to Home Sales Manager, William Freeman & Co., Ltd., Suba Seal Works, Peel Street, Barnsley. C 7554

LEADING MANUFACTURERS of tooth-paste and proprietary medicines, require an energetic sales representative who is trained in modern sales methods to sell to chemists in West London. Applicant should be aged between 25 and 35 years, resident in the area, have some experience of selling to retail chemists and be willing to undergo any necessary further sales training. This is an opportunity for joining a first-class organisation where a good salary is paid and car and expenses provided. Non-contributory pension and profit participation schemes in operation. Write stating age and experience to Box C 7594.

MEDICAL REPRESENTATIVE, either sex, required for South London area. Experienced in calling on general practitioners. Whilst preference will be given to pharmacist, applicants should give adequate details of experience, education and/or academic attainment, to warrant consideration. Excellent position with good prospects offered to successful applicant. Apply in writing to the Managing Director, Biorex (Marketing), Ltd., 47/51 Exmouth Street (Mkt.), E.C.1. C 7584

REPRESENTATIVE required by well-known manufacturing chemists to call on chemists, drug stores, etc., in Glasgow area. Write stating age and experience. Salary, commission, expenses paid. Box C 7576.

SALES REPRESENTATIVE required for East Lancs area by well-known pharmaceutical house; must be thoroughly experienced and able to take over and expand existing connection in drugs, packed goods, sundries, etc. Salary, expenses and commission. Car supplied; pension scheme. Full details of past experience to H.S.D., Ayrton, Saunders & Co., Ltd., P.O. Box 38, Liverpool, 1. C 7587

METHOD ENGINEERING (MANAGEMENT CONSULTANTS) LIMITED

have been asked to advise on the selection of a

GENERAL MANAGER for a firm of

MANUFACTURING CHEMISTS in the North of England.

The Company, which employs about 300 operatives, manufactures a wide range of proprietaries and galenicals.

Candidates must be suitably qualified and should have several years' experience in factory management with a reputable firm in similar line of business.

This is a new appointment. After a probationary period it is intended that the General Manager shall take over progressively from the Managing Director responsibility for all functions connected with manufacture and sale of the Company's products and shall eventually succeed him.

Preferred age 35-45. The post will carry a salary around £2,000 according to experience and will be pensionable.

Applicants should give brief but precise details to:—The Managing Director, Method Engineering (Management Consultants) Ltd., 39 St. Michael's Lane, Headingley, Leeds 6.

No information will be disclosed to our clients without permission being given after preliminary interview. C 7556

THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED

Applications are invited from men up to 45 years of age with the appropriate experience for the position of medical and pharmaceutical representative. The vacant territory covers:—

Hampshire and Berkshire

and the successful applicant should preferably reside in or near Southampton. A pharmaceutical qualification is desirable.

The initial salary will be commensurate with experience and qualifications. A car is provided and all legitimate expenses met. A non-contributory pension scheme is in operation.

Applications in writing should be addressed to the Home Sales Manager at Broadway House, The Broadway, Wimbledon, London, S.W.19. Correspondence should be marked "Confidential."

NOTE—If you have not already replied to our previous advertisements for territories in South Wales, Birmingham and Glasgow please apply immediately, as interviews are now being arranged. C 7562

Situations Vacant—Continued

OLD-ESTABLISHED cork manufacturers require representatives already calling on chemists. Commission basis only. All areas except the South and South-east Coasts. Box C 1269.

SENIOR WAREHOUSEMAN required for the London Depot of Edward Taylor, Ltd., manufacturers of medical plasters. Application stating age, experience and salary required to:—Manager, Ferguson House, 124-128 City Road, E.C.1. C 1278

TABLET COATER. Applications invited from experienced tablet coaters by a firm of manufacturing chemists in West London. Five-day week. Write stating age, experience and salary required (good wages to right man) to Box C 1260.

THOMAS KERFOOT & CO., LTD., require an experienced representative to call on retail chemists only in S. London and adjacent home counties. A company car is provided and pension scheme is in operation. Please apply, giving full details of age, education, training and experience to Sales Manager, Vale of Bardsley, Ashton-under-Lyne, Lancs. C 7585

TWO REPRESENTATIVES required to contact hospitals, institutions, etc., in the following areas: 1, London; 2, South Yorks. Duties will consist of medical propaganda, selling and lecturing. These are well-paid positions, permanent and superannuated. They demand ambitious, educated men, preferably with experience in this field. Full training will be given. Applicants should send fullest details to Box C 7592.

VETERINARY REPRESENTATIVES

The Distillers Company (Biochemicals), Limited, invite applications from men with the appropriate experience for the position of veterinary representative. The vacant territories are:—

- West Country and South Wales (preferably based on Bristol),
- North Wales, Merseyside and South Lancashire (preferably based on Liverpool).

The initial salary will be commensurate with experience and qualifications. A car is provided and all legitimate expenses met. A non-contributory pension scheme is in operation. Applications in writing should be addressed to the Home Sales Manager at Broadway House, The Broadway, Wimb'edon, London, S.W.19. Correspondence should be marked "Confidential." C 7561

WHOLESALE (OVERSEAS)**BURROUGHS WELLCOME & CO.**

will shortly appoint a pharmacist for duties in West Africa on behalf of their distributors in that market. Opportunity for man aged about thirty who is interested in a career in commerce. Duties will include sales promotion and administration. Younger man considered if he possesses qualities offsetting his lack of experience. Initially an 18 months' tour followed by 3 months' home leave on full pay. Good salary. Free accommodation. First-class air/sea passages. Car provided. Low rate income tax. Apply with full details to Rcf. M/LPN, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.1. C 7598

AGENTS WANTED

AGENTS. First-class agent for Scotland required by manufacturers of A.R. Freshner and Lavatory Blocks, Fragrant Air Pads, etc. Every co-operation and good commission offered. Please send fullest particulars to Vapar Chemical Co., Ltd., Abbot Street, London, E.8. C 1286

AGENTS. Unusual opportunity for first-class agent working Warwicks, Staffs and Worcs to take over approximately 250 live accounts in this area for manufacturers of Air Freshener and Lavatory Blocks, Fragrant Air Pads, etc. Highly competitive. Please send fullest particulars to Vapar Chemical Co., Ltd., Abbot St., London, E.8. C 1285

AGENTS REQUIRED by the manufacturers of an established range of products. Must have first-class connection with retail chemists and be prepared to work on a good commission basis plus bonus. Excellent prospects for the right men. Write fully, stating present activities, area covered, etc. Box C 1264.

AGENTS REQUIRED already calling on chemists, etc., to carry powder puffs and plastic holdalls. Liberal commission. Areas: Scotland, Midlands, South Coast and West Country. Columbia Products Co., Ltd., 1 Dukes Avenue, London, W.4. C 7586

SITUATIONS WANTED**RETAIL HOME**

L.P.S.I. (MALE), 26, seeks position, London area preferred, as dispenser or assistant; good experience, excellent references. Box C 1268.

WHOLESALE

CHEMIST'S DAUGHTER as secretary clerk; Hall; middle-aged. Hospital, wholesale pharmaceutical firm, London area or South Coast. Available March. Box C 1274.

MEDICAL REPRESENTATIVE, eight years' experience, best connections doctors, hospitals, London area, seeks employment manufacturers' ethical products. Car owner. Box C 1254.

AGENCIES WANTED

IRISH REPUBLIC. Are you satisfied with your sales to wholesale and retail customers in this area? Dublin-based manufacturers' agents with whole country coverage offer vivid representation and the benefit of excellent connections throughout the trade. Box C 1282.

SCOTLAND. Long established firm of agents, possessing own warehouse and office, and with excellent connections, retail and wholesale chemists, giving complete coverage at frequent intervals. Require one more first-class agency. Box C 1256.

WELL-ESTABLISHED DISTRIBUTORS with large connection among chemists, stores and multiples, etc., covering all parts of the country, are interested in new lines for this outlet. Let us put your goods where they will be sold. All correspondence treated in strict confidence. Box C 1277.

BUSINESS OPPORTUNITIES

DO NOT MISS SALES! Paton's Dental Ointment. National advertising in *Daily Express* for this original and C.F. line, there is nothing like it for mouth ulcers, sore gums, cold sores, split lips, also for use with new or old dentures. Gives instant mouth comfort. 2s. 3d. per tube retail. Counter display outer of one doz.. Bonus terms on 2 doz. It pays to sell Paton's Dental ointment. It sells all the year. Order now. Paton (Southport), Ltd., Southport. C 1263

CONSULTING CHEMIST will act in an advisory capacity. Analysis undertaken. Formulas supplied. Send your enquiries to Box C 1266.

CAPSULES OF**HALIBUT LIVER OIL B.P.**

**SPECIAL PRICES FOR
BULK OR PACKED
VITAMIN CONTENT GUARANTEED**

THEAKROCK PHARMACEUTICALS Ltd
14 YORK BUILDINGS • HASTINGS • SUSSEX
C7465

PHARMACEUTICAL MANUFACTURING FIRM have facilities available for the production of pharmaceutical and allied products to customers' own specifications, label and requirements. Propositions invited. Box C 7581.

WELL-KNOWN MANUFACTURER offers excellent quality scalpel blades to distributors' own trade mark. Interested distributors with wide hospital coverage write in confidence. Box C 1245.

WANTED

LARGEST CASH BUYERS of photographic equipment of every description, outdated film and paper, etc. Spears, 14 Watling St., Shudehill, Manchester, 4. Phone Blackfriars 1916. Bankers: Midland Bank, Ltd. C 341

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel. Bayswater 4020 and 7692. C 140

MISCELLANEOUS SALES

100 BAYS of brand new adjustable steel shelving, 72 in. high by 34 in. wide by 12 in. deep, stove-enamelled bronze green. Sent knocked down—6 shelf bay—£3 15s. Sample delivered free. Quantity discounts. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. Telephone 69018. C 7473

CHAMOIS LEATHERS

Exceptional Value! Very Attractive!
Individually Cellophane Wrapped
Approx. Size: 26 in. x 15 in.

ONLY 5/11 per skin
(minimum order 1 dozen).
1 kip (30) less 5 per cent. **ORDER NOW!**
(Special Terms for Wholesalers)
County Chamols Co., Ltd., Rocky Lane,
Aston Cross, Birmingham.
Makers of the 'County Chamols
Leather Mop.'

C 7590

FOR SALE. Advertiser offers one ton Calcium Lactate, B.P. grade, packed in 14-cwt. kegs at much reduced price for quick disposal. Free delivery anywhere in England. Offers to Box C 1259.

SUPPOSITORY EXCIPIENTS "IMHAUSEN"
—in five different grades to suit individual needs
—available from Chemicals Trading Company, Ltd., 102 Bishopsgate, London, E.C.2. C 365

**WINTER BRIGHT FASHION
JEWELS**

**FREE LIST FROM
L. FRANKENBERG, LTD.,
37 HOUNDSDITCH,
LONDON, E.C.3**

C 269

SALES BY AUCTION

B. NORMAN & SON, 2/5 Little Britain (close to G.P.O.), London, E.C.1, will Auction on Wednesday, February 19, at 1.30 p.m., excellent light oak Chemists' Shop Fixtures in practically new condition comprising Drug Runs, Plate-glass Counters, Wall Showcases, Cashiers' Desks and Cash Registers, Mirrors, Display Stands, Office Furniture, Typewriters, etc. View day prior. Catalogues on application. Tel.: Mon. 8501/2. C 7591

TENDERS

NATIONAL HEALTH SERVICE

SUPPLY OF MEDICINES, DRUGS
AND SURGICAL DRESSINGS

The Ministry of Health, on behalf of the Welsh Region, invites tenders for the supply of Medicines, Drugs and Surgical Dressings, as detailed below, to HOSPITALS IN WALES UNDER THE NATIONAL HEALTH SERVICE for one year from July 1, 1958.

Categories of Stores:—Anaesthetics, Antiseptic Fluids, Dextrose, Glycerin, Malt Extract, Medicinal Tablets, Medicines and Drugs, Paraffin, B.P., Serologicals, Spirit Methylated, Vitamin Preparations and Surgical Dressings.

DUE DATE FOR RETURN OF TENDERS: 10 a.m. on March 14, 1958.

Tender Forms obtainable on written application to the Ministry of Health, Savile Row, London, W.1, quoting reference CS3/RC1/5C (Drugs) and/or CS36/RC1/1C (Dressings), stating clearly the category or categories of stores for which forms are required. No undertaking can be given that the lowest (or any) tenders will be accepted. C 7577

BOROUGH OF NUNEATON
CHEMIST'S SHOP TO LET

Tenders are invited for leasing a dispensing chemist's shop now in course of erection at Vernons Lane, Nuneaton. The shop is one of a block of four on a housing estate comprising nearly 700 houses, some of which have been erected in recent years. There is no other chemist's shop in the area. The successful applicant will be granted the tenancy of a maisonnette over the shop if required.

A form of tender and further particulars can be obtained from the Town Clerk. The Council does not bind itself to accept the highest or any tender. Tenders must be received by 12 noon on February 26.

A. A. CRABTREE,
Town Clerk.

Council House,
Nuneaton.

C 7595

MEDIUM SIZED D. & P. WORKS

established 16 years, with enthusiastic management and staff and with the very latest equipment, would welcome your D. & P. enquiries. Postal service is per return but quality is not sacrificed. P.D.A. prices and discounts. We are members of P.D.A., W.P.F.A., and I.B.P. Mr. L. H. Morgan, Gwent Photographic Services, Snatchwood Works, Pontypool, Mon. Tel.: Taly-wain 355. C 274

MISCELLANEOUS

IMMEDIATE ADVANCES

£50 to £20,000

WITHOUT SECURITY

REGIONAL TRUST LTD.

8 CLIFFORD STREET

NEW BOND STREET, LONDON, W.1

Phone: Regent 5983 & 2914 C 353

DEVELOPING & PRINTING

SPEEDY D. & P. SERVICE. Quality with speed, a rarity today. Specialists in 35 m/m processing and enlarging. Films received first post returned same day. Over 50 years' experience. Modern finishing methods. Write for particulars and price lists. Marriots Photo Stores, Ltd., 42 White Rock, Hastings, Sussex. Tel.: Has. 933. C 1255

Redesigned to fit the pocket . . .

REVISED, FULLY UP-TO-DATE, COMPLETE

THE FITTING OF TRUSSES
AND ELASTIC HOSIERY

with information on the supply of appliances
permitted on E.C.10 prescriptions under the
National Health Service

Published by
THE CHEMIST AND DRUGGIST,
28 Essex Street, Strand,
London, W.C.2
Price 4s. 6d.

FOR the chemist-contractor who supplies trusses and elastic hosiery under the National Health Service, this complete and handy illustrated handbook, written by a practising truss maker and fitter of many years' practical experience, tells:—

What appliance or garment to supply : How to measure and how to fit : Pitfalls to avoid.

With its forty-eight 4½" x 6" pages, it slips easily into the pocket. Its flexible linson cover stands up to wear without making the book heavy or bulky.

Fully revised, the book has been enlarged to include equally useful information on other appliances that may be prescribed on E.C.10 forms.

Send for your
copy today

Price
4/6
Postage 2d.

The Publisher:—

THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, STRAND, LONDON, W.C.2



An eye for beauty

*What the eye sees, the heart
can rejoice over. Glass containers,
moulded in distinctive forms, enhance the
attractions, while preserving the qualities,
of the colourful goods they hold.*

*Glass, in fact, is the key to successful selling.
Key Glass represents the best in modern glass-making.
A design service is available to meet your particular
packaging problem, including closures.*



Key Glassworks Ltd

Factories at New Cross · Alpertons · Harlow

Sole Selling Agents: Ronald Gale & Co. Ltd.

First Class in GLASS

The
CHEMIST AND DRUGGIST

FEBRUARY 8 1958

The name that guarantees accuracy

The graphic features a large red rectangular background. In the upper left, the word "ZEAL" is written in large, white, bold, sans-serif capital letters. The letter "Z" is stylized with a red, flowing, ribbon-like underline. To the right of "ZEAL", the words "BRITISH MADE" are written in smaller, white, sans-serif capital letters. Below the text, two clinical thermometers are shown diagonally, pointing from the bottom left towards the top right. They have black glass tubes with white markings and black bulbous bases. At the bottom of the red rectangle, the word "CLINICALS" is written in large, white, bold, sans-serif capital letters.

ZEAL BRITISH
MADE

CLINICALS

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
- INDUSTRIAL THERMOMETERS

G. H. ZEAL LTD

LOMBARD ROAD, MORDEN ROAD, LONDON, S.W.19

Telephone: LIBERTY 2283-4-5-6 & 4201

Cables: "ZEALDOM" LONDON